



Quarterly Monitoring Report 3rd Quarter 2005

**L.E. Carpenter & Company
Borough of Wharton
Morris County, New Jersey**

USEPA ID No. NJD002168748

October 2005

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RMT, Inc., Michigan ("RMT")
2025 E. Beltline Avenue SE, Suite 402
Grand Rapids, MI 49546
Tel. (616) 975-5415
Fax (616) 975-1098



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Nicholas J. Clevett
Project Manager

James J. Dexter
Senior Hydrogeologist



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- Appendix B NJDEP Letter dated July 20, 2005
- Appendix C 3rd Quarter 2005 Monitoring Well Sampling Data
- Appendix D 3rd Quarter 2005 Laboratory Analytical Report

Section 1

Introduction

RMT, Inc. (RMT), on behalf of our client, has prepared this Quarterly Monitoring Report for the L.E. Carpenter and Company (LEC) ("site") located at 170 North Main Street, Borough of Wharton, Morris County, New Jersey (Figure 1). Quarterly monitoring events are performed at the site to comply with paragraph 35 of the 1986 Administrative Consent Order (ACO) issued to LEC by the New Jersey Department of Environmental Protection (NJDEP). We provide a summary of activities completed during the third quarter of 2005 (3Q05), including but not limited to, the continuation and completion of source reduction remedial activities as outlined in the NJDEP and United States Environmental Protection Agency (USEPA) approved Remedial Action Work Plan (RAWP) and response to RAWP comment documents dated September and November 2004, continued quarterly Monitored Natural Attenuation (MNA) groundwater monitoring in the MW19/Hot Spot 1 Area, and the continued emergency response activities to prevent the potential migration of free product.

We have certified this report in accordance with requirements outlined in N.J.A.C 7:26E-1.5 (Appendix A).

RMT conducted the following tasks during the 3Q05:

- Quarterly groundwater monitoring as required under the ACO (Reference Section 2 and Figures 3 and 4).

Discussion of these activities is provided in the referenced sections.

1.1 Response to Regulatory Review of the 1st Quarter 2005 Monitoring Report

Responses to the NJDEP comment letter received by LEC on July 25, 2005 (Appendix B) are presented in the following paragraphs:

- LEC will work closely with NJDEP to assure the appropriate intervals will be screened and sampled in the wells proposed for post-remedial monitoring. Locations and screened intervals for post remediation wells are detailed in the post-remediation monitoring plan (PRMP) recently prepared and submitted to the NJDEP and USEPA for review and approval.

- Due to the January 2005 start-up of the source reduction and localized flooding along the Rockaway River, sampling of surface water was delayed, but was initiated as soon as access issues and site/river flooding conditions could be addressed. Surface water samples were collected from the ditch and the Rockaway River as part of the 2nd quarter (July 2005) (2Q05) and 3Q05 (this report) sampling events. As reported in the 2Q05 report, surface water was collected during that event (April, 2005) in the Rockaway River adjacent to the location of visible sheen within the wetland area (Figure 2; location SW-R-1). This sample was collected as soon as flood waters within the Wharton Enterprises area had receded, and was submitted to the laboratory for analysis; total xylenes, ethylbenzene, and di(2-ethylhexyl)phthalate (DEHP) were detected in that river water sample. Following completion of the source reduction, this location was sampled again in July 2005 as part of the 3Q05 sampling event (as well as other river sample locations), and as reported below in Section 3.2, no constituents of concern (COC) were detected, except for a "J"-qualified detection of DEHP at 1 µg/L. As described below, surface water sampling will continue to take place during each quarterly monitoring event; each event will include three samples in the ditch, five locations in the river, and one location at Washington Forge Pond (at the locations shown on Figure 2 of this report).

Section 2

MW19/Hot Spot 1 Groundwater Monitoring

2.1 Implementation of the Revised Monitored Natural Attenuation Protocol

In a letter dated January 15, 2004, USEPA requested LEC implement the approved May 2001 MNA workplan. Prior to that time, LEC implemented only the low-flow sampling protocols outlined in the MNA workplan. During the second quarter 2004 (2Q04) sampling event, LEC began implementing all aspects of the MNA workplan (e.g., low flow sampling, full MNA analysis etc). During the January 6, 2005 preconstruction meeting, USEPA requested quarterly MNA activities be continued in the MW19/Hot Spot 1 area until the source reduction remedial action was complete and a new site-wide monitoring well network was installed. In a letter dated January 13, 2005, RMT revised the MNA monitoring program due to the modifications made to the LEC site groundwater monitoring network. A copy of the revised MNA sampling protocol was presented as Appendix D in the 1st quarter 2005 (1Q05) monitoring report. This revised MNA monitoring protocol will be implemented quarterly at LEC until an NJDEP and USEPA approved site-wide monitoring well network has been installed, and a sampling plan developed and approved.

2.2 Sampling Methodology

RMT conducted the 3Q05 groundwater monitoring activities July 25 thru July 27, 2005. Historically, we performed groundwater monitoring in accordance with the procedures contained in the NJDEP's *Field Sampling Procedures Manual* dated May 1992. However, in second quarter 2002 (2Q02) we initiated groundwater monitoring using the low-flow methodology outlined in our May 2001 MNA workplan. The MNA workplan was approved by NJDEP on January 24, 2002. Although the sampling was performed using low-flow methods (i.e., QED bladder pump system with disposable Teflon bladders as described in the approved MNA workplan Quality Assurance Project Plan (QAPP)), the remaining parts of the MNA workplan (e.g., full analysis of each sample for MNA specific parameters) had not yet been initiated. As outlined in the comments received from USEPA on January 15, 2004 following their review of the third quarter 2003 (3Q03) monitoring report, LEC began implementing the additional portions of the MNA workplan during the 2Q04 sampling event. In 1Q05, RMT implemented the revised MNA monitoring protocol, and performed the event in accordance

with the approved MNA workplan. Locations of the monitoring wells remaining at LEC following the abandonment activities completed in fourth quarter 2004 (4Q04), along with the monitoring wells utilized in the quarterly MNA monitoring of the MW19/Hot Spot 1 Area are shown on Figure 2.

A sample duplicate, a trip blank, field (atmosphere) blank, a matrix spike/matrix spike duplicate (MS/MSD), and a rinsate blank were collected to satisfy Quality Assurance/Quality Control (QA/QC) requirements outlined in the QAPP. The trip blank was prepared by the laboratory and remained with the sample containers until the samples were returned to the laboratory where they were analyzed for benzene, toluene, ethyl benzene, and xylenes (BTEX). The duplicate was collected from monitoring well MW-19-10 (duplicate sample No. Dup-01), and was analyzed for BTEX, DEHP, and MNA parameters. The rinsate blank was collected by circulating triple distilled water through the cleaned bladder pump assembly to verify the decontamination procedures were adequate. Any sampling equipment used at each well was decontaminated prior to each use utilizing an environmental detergent (Alconox) and clean water wash followed by a distilled water rinse. The field (atmosphere) blank was taken by opening a bottle of unpreserved de-ionized water provided by the laboratory, leaving the bottle open during the sampling of one well, and pouring that water directly into clean sample bottles with added preservative also provided by the laboratory. RMT submitted all samples to Lancaster Laboratories, Inc. (Lancaster), located in Lancaster, Pennsylvania for BTEX, DEHP, and MNA parameter analysis per the current MNA groundwater monitoring protocol [State of New Jersey Lab Certification No. PA011].

2.3 Groundwater Elevations and Flow Direction

On July 25, 2005, RMT measured static groundwater levels from 18 different locations (Table 1) outlined in the revised MNA protocol (1Q05 Monitoring Report; Appendix D). RMT used this data to calculate groundwater elevations and evaluate the groundwater flow pattern in the shallow aquifer system.

Figure 3 displays the MW19/Hot Spot 1 Area shallow groundwater elevation contours, and indicates that groundwater flow direction in the shallow aquifer is likely influenced by the presence of the 24-inch Rockaway River Regional Interceptor Sewer, which is encased in a gravel-lined trench oriented roughly parallel to Ross Street. The data shows the shallow groundwater flow direction is generally similar to that observed historically (generally toward the north and bends northeast). However, the results from this event, which include data from recently installed MW-19-11, show subtle variations in flow direction compared to other monitoring events. Specifically, groundwater flow at MW-19-7 appears shifted slightly northeast compared to previous events, which may explain significant concentration reductions in that well (see discussion below). Data continue to suggest that MW-19-11 is not directly

downgradient from the leading edge of groundwater contamination, and it is possible that COC's could be migrating northeasterly between wells MW-19-8 and MW-19-11. *-But low levels*

From a regional flow standpoint, overall flow is controlled by the Washington Forge Pond and the Rockaway River. The Rockaway River eventually captures groundwater from MW-19/Hot Spot 1 area, even though it is locally influenced by the Regional Interceptor Sewer.

2.4 Delineation of Groundwater Contamination

2.4.1 Contaminants of Concern

Table 2 summarizes concentrations of BTEX and DEHP for all of the MW-19/Hot Spot 1 area MNA groundwater monitoring wells. RMT sampled groundwater from the MW-19/Hot Spot 1 area wells between the dates of July 25 and 27, 2005. Corresponding field sampling data and analytical laboratory reports are presented as Appendix C and Appendix D respectively.

The New Jersey Groundwater Quality Standard (NJGWQS) for DEHP is not exceeded in any of the sampled monitoring wells. Ethylbenzene, toluene, and total xylenes exceed the NJGWQS of 700 µg/L, 1000 µg/L, and 40 µg/L, respectively, in groundwater collected from MW-19 and MW-19-5. Groundwater sampled from MW-19-2 also exceeded the NJGWQS for ethylbenzene and toluene. Furthermore, monitoring wells MW-19, MW-19-5, MW-19-7 (upper profile interval), and MW-19-7 (lower profile interval) slightly exceeded the NJGWQS for benzene of 1 µg/L.

The overall concentrations of COC's in MW-19-7 are greatly reduced for 3Q05 compared to data from the 2nd quarterly event. This may be a result of the subtle changes in groundwater flow direction as described above, which results in MW-19-7 appearing more cross-gradient from the principle flow axis emanating from the residual source area (see flow arrow on Figure 3) at the time of this 3rd quarter sampling event.

MW-19 is located close to the former 10,000-gallon underground storage tanks (UST) (UST's E-3 and E-4) that were likely responsible for the resulting DEHP and BTEX constituents in shallow groundwater. These former UST's are no longer a continuing source for DEHP and BTEX contamination in this area because LEC removed them in 1991 along with nearby impacted soils. In addition, the LEC printing processes and material storage practices that occurred in Building 9 that may have resulted in releases of both DEHP and BTEX were stopped in 1987. However, contaminated soils in the vicinity of MW-19 were reportedly left in place, and these soils may represent residual

contamination responsible for the dissolved groundwater contaminants being detected currently.

No BTEX or DEHP were detected in the newly installed MW-19-11. However, as described above, for the third time since installed, data show groundwater flow shifts more northeasterly between MW-19-7 and MW-19-11. Thus, data continue to suggest that MW-19-11 is not directly downgradient from the leading edge of groundwater contamination, and it is possible that COC's could be migrating northeasterly between wells MW-19-8 and MW-19-11. Although it is equally possible that COC's in groundwater in the MW-19 area are not migrating any further than shown on Figure 4 (equilibrium conditions), an additional monitoring well is recommended as described in Section 4.3 (and as shown on Figure 3).

RMT constructed Figure 4 to show isoconcentration contours for total BTEX levels in parts per million (ppm) (mg/L) with respect to the groundwater elevation contours. The distribution of total BTEX defined by the isoconcentration contours is consistent with the groundwater flow direction defined by the groundwater elevation contours.

No BTEX or DEHP were detected in MW-19-9D (Table 2). This indicates there is no migration of these constituents downward and to the north under Ross Street and the regional interceptor sewer. In addition, the lack of downward migration of contaminants is evidenced by the upward vertical hydraulic gradient discussed below.

The closeness of MW-19-6 and MW-19-9D allows a general comparison between groundwater elevations versus screened interval to evaluate the vertical gradient. The hydraulic head at MW-19-9D is 0.41 feet higher than at MW-19-6, indicating a significant upward vertical gradient. The vertical distance between the middle of the MW-19-6 and the MW-19-9D well screens is 15 feet. Given the difference in hydraulic head between the two wells, the upward vertical hydraulic gradient is about an order of magnitude greater than the horizontal hydraulic gradient measured for this area.

This upward vertical gradient is consistent with all other former deep/shallow well clusters across the site and is probably influenced by the hydraulic head induced by the Washington Pond Reservoir, and regional discharge to the Rockaway River. These findings are consistent with an earlier RMT prediction of an upward vertical gradient for this location based on nearby piezometers GEI-2I and GEI-2S, and other upward vertical gradients observed across the site. The Washington Forge Pond (at an elevation of approximately 640 feet), and the Rockaway River act as constant head boundaries, and together comprise a regional aquifer discharge area.

LEC will continue to conduct quarterly groundwater monitoring in this area as part of the revised MNA quarterly groundwater-monitoring program.

2.4.2 MNA Parameters

Tables 3 and 4 summarize the MNA laboratory analytical and field data respectively. The current quarterly groundwater monitoring program, as a result of recent modification to the LEC site groundwater monitoring well network, was revised on January 13, 2005, and put into affect for 1Q05 sampling. The sampling and testing was done in accordance with the revised MNA sampling protocol presented as Appendix D in the 1Q05 monitoring report. Once the site wide groundwater monitoring well network has been approved by both NJDEP and USEPA and installed at the site, these data will be examined more closely and discussed in greater detail with respect to post-remediation evaluation of MNA.

Section 3

Surface Water Sampling

3.1 Eastern Drainage Channel

As part of the 3Q05 event, RMT sampled the eastern drainage channel that separates the adjacent Air Products facility from the LEC site and the adjacent Wharton Enterprises property. This sampling was conducted at the request of NJDEP as outlined in their letter dated March 23, 2005. During the third quarter sampling event, three locations (SW-D-1, SW-D-2, and SW-D-3) were sampled. Sample SW-D-1 is located at the upstream end (head) of the ditch (Figure 2). Sample SW-D-2 is located just downgradient of the bend around the Air Products facility (Figure 2) adjacent to the area where free product seeps were observed before completion of the source reduction. Sample SW-D-3 is located at the downgradient end of the ditch, just west of the connecting channel that feeds into the Rockaway River (Figure 2). Laboratory testing results for these samples are summarized on Table 5.

The surface water sample collected at background location SW-D-1 (head of the ditch) contained a low level of toluene (0.5 µg/L). However, the toluene detection is "J-qualified" meaning it was an estimated value falling between the method detection limit (MDL) and the Limit of Quantitation (LOQ). The surface water sample SW-D-2 was collected adjacent to the main seep (recently removed as part of the source reduction) and contained low levels of ethylbenzene, total xylenes, and DEHP (0.5 µg/L, 6.1 µg/L, and 38.0 µg/L respectively). The ethylbenzene detection is also "J-qualified". The downstream surface water sample collected at SW-D-3 contained low levels of total xylene and DEHP (1.1 µg/L and 7.0 µg/L respectively). The total xylene and DEHP detection is "J-qualified". All concentrations, with the exception of the DEHP detections in SW-D-2 and SW-D-3, are below the surface water quality criteria for toxic substances outlined in N.J.A.C 7:9B-1.14.

3.2 Rockaway River

In addition to the drainage channel, RMT also collected samples in the Rockaway River and Washington Forge Pond (Figure 2; all locations except SW-R-6). One river water sample (SW-R-1) was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Three other river samples were taken at locations further upstream of where the former absorbent booms were placed and one additional "background" surface water sample was collected from Washington Forge Pond.

Sample SW-R-1 was collected near the river edge adjacent to the location where absorbent booms were placed in order to prevent visible product sheen from migrating directly into the river. As discussed in earlier reports, the sheen was discovered in 2004 as a visible coloration on top of quiescent water ponded within the wetland area. The maximum concentrations detected at this location for the 2Q05 event were 99 µg/L total xylenes, 17 µg/L ethylbenzene, and 2 µg/L DEHP ("J" qualified; see Table 5). All concentrations, with the exception of the "J-qualified" DEHP detection of 2.0 µg/L, were below the surface water quality criteria for toxic substances outlined in N.J.A.C 7:9B-1.14. This location was sampled again in July 2005 as part of this 3Q05 sampling event (following the June 6th completion of the source reduction), and no constituents of concern were detected except for a detection of DEHP at 1 µg/L. The DEHP detection from SW-R-1 is "J-qualified" meaning it was an estimated value falling between the MDL and the LOQ.

The surface water samples collected in the river at the three other locations were "non-detect" for BTEX and DEHP.

Surface water sampling at the eastern drainage ditch as well as the Rockaway River and Washington Forge Pond will continue to take place during each quarterly monitoring event. Specifics regarding surface water sampling locations, frequency and analytes are presented in the PRMP.

Section 4

Remedial Actions and Future Activities

The following section briefly outlines additional remedial activities completed in 3Q05 and activities anticipated for implementation during 4th quarter 2005 (4Q05). The 4Q05 MW-19/Hot Spot 1 sampling activities are tentatively scheduled to be completed in October 2005.

4.1 Source Reduction Construction Project

As we outlined in the final source reduction progress updates dated June 30, 2005 the construction phase of this project is now complete.

A Remedial Action Report (RAR) documenting all source reduction activities will be provided to both NJDEP and USEPA for review about the week of November 7, 2005.

4.2 Emergency Response Activities

Emergency response activities have been terminated as source reduction activities are now complete. RMT visually inspected these areas during the 3Q05 sampling event (at the same time adjacent surface water samples were collected). RMT did not find any seeps along the ditch and the Rockaway River, and no sheen was observed within these surface water bodies.

4.3 Post Source Reduction Site Monitoring

RMT anticipates initiating discussions with both NJDEP and USEPA during 4Q05 regarding the development and installation of the post source reduction site monitoring network per the recently submitted PRMP.

In addition to an adequate array of monitoring wells within and downgradient from the source reduction area, the proposed site monitoring network will include one additional shallow monitoring well proposed for the MW-19 area (Figure 3) based on the localized northeasterly shift in groundwater flow discussed above.

Tables

Table 1

3rd Quarter 2005

L.E. Carpenter and Company (LEC)
Borough of Wharton, Morris County, New Jersey
Quarterly Groundwater Elevations

WELL LOCATION ⁽³⁾ (4)	WELL TYPE	PROFESSIONAL SURVEY INFORMATION ⁽⁶⁾							QUARTERLY MEASUREMENT INFORMATION		
		BASELINE LOCATION (FT)		GEODETIC LOCATION		ELEVATION (FT. MSL)			MEAS. DATE	WATER DEPTH	WATER ELEVATION
		(Y) North	(X) East	LATITUDE	LONGITUDE	GROUND	OUTER CASING	INNER WELL			
GEI-2I	Piezometer	754573.99	470499.76	40° 54' 17.4"	74° 34' 43.1"	635.32	637.75	637.60	25-Jul-05	11.57	626.03
GEI-2S	Piezometer	754566	470506.18	40° 54' 17.3"	74° 34' 43.0"	634.86	637.27	637.07	25-Jul-05	11.43	625.64
GEI-3I	Piezometer	754311.79	470453.7	40° 54' 14.8"	74° 34' 43.7"	636.96	639.39	639.25	25-Jul-05	13.72	625.53
MW-15S	Monitoring Well	754326.58	470891.83	40° 54' 15.0"	74° 34' 38.0"	634.23	636.43	636.17	25-Jul-05	10.78	625.39
MW-15I	Monitoring Well	754325.8	470901.47	40° 54' 15.0"	74° 34' 37.9"	634.14	636.28	636.06	25-Jul-05	10.72	625.34
MW-19	Monitoring Well	754537.15	470454.45	40° 54' 17.1"	74° 34' 43.7"	636.22	636.23	635.90	25-Jul-05	10.22	625.68
MW-19-1	Monitoring Well	754534.52	470427.63	40° 54' 17.0"	74° 34' 44.0"	635.93	635.96	635.64	25-Jul-05	10.00	625.64
MW-19-2	Monitoring Well	754551.81	470429.56	40° 54' 17.2"	74° 34' 44.0"	636.46	636.50	636.30	25-Jul-05	10.60	625.70
MW-19-3	Monitoring Well	754539.4	470394.2	40° 54' 17.1"	74° 34' 44.5"	636.97	637.06	636.70	25-Jul-05	11.00	625.70
MW-19-4	Monitoring Well	754505.39	470432.08	40° 54' 16.7"	74° 34' 44.0"	635.69	635.76	635.43	25-Jul-05	9.68	625.75
MW-19-5	Monitoring Well	754565.53	470470.75	40° 54' 17.3"	74° 34' 43.5"	635.93	635.93	635.56	25-Jul-05	9.97	625.59
MW-19-6	Monitoring Well	754578.87	470443.1	40° 54' 17.5"	74° 34' 43.8"	636.17	636.16	635.82	25-Jul-05	10.16	625.66
MW-19-7	Monitoring Well	754595.66	470501.7	40° 54' 17.6"	74° 34' 43.1"	635.31	635.36	635.00	25-Jul-05	9.40	625.60
MW-19-8	Monitoring Well	754617.42	470493.65	40° 54' 17.8"	74° 34' 43.2"	635.82	635.82	635.36	25-Jul-05	9.78	625.58
MW-19-9D	Monitoring Well	754590	470442	40° 54' 17.9"	74° 34' 42.4"	636.39	636.41	636.10	25-Jul-05	9.85	626.25
MW-19-10	Monitoring Well	754625.75	470590.81	-	-	634.72	634.81	634.43	25-Jul-05	8.60	625.83
MW-19-11	Monitoring Well	754617.45	470546.95	40° 54' 18.2"	74° 34' 41.0"	634.22	634.26	633.67	25-Jul-05	8.22	625.45
SG-D1 ⁽¹⁾	Drainage Channel Staff Gauge	754428.57	471240.37	-	-	625.81	-	-	25-Jul-05	1.21	624.60
SG-D3 ⁽¹⁾	Drainage Channel Staff Gauge	754381.47	471548.31	-	-	625.83	-	-	25-Jul-05	1.46	624.37
SG-R1	Rockaway River Staff Gauge	754313.99	470408.70	-	-	640.92	-	-	25-Jul-05	1.42	639.50

FOOTNOTES

(1) Elevation measured at the top of a 3.33 ft. Staff gauge. Reference elevation (ground) shot at the top of the staff gauge.

Water depth based on a visual observation of the water level on the Staff gauge.

(3) Monitoring points and wells in BULL included in the quarterly sampling program as outlined in the KM1 letter dated January 13, 2005. Depth to water recorded before purging

(4) All "19 series" wells were resurveyed August 8, 2001 at owners request. Wells MW19 through MW19-5 were converted to flush mount wells to allow for through traffic. Professional survey performed by James M. Stewart, Inc., Philadelphia, PA

(6) Horizontal Datum: New Jersey State Plane Coordinate System NAD 83. Vertical Datum: NAVD 88

MW-19

TABLE 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

THROUGH 3RD QUARTER 2005

MONITORING WELLS	ANALYTICAL PARAMETERS										
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)
	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30
MW19											
Dilution factor for BTEX 2000	24-Feb-95	1	<	660	1,700		110,000		10,000		NR
Dilution factor for BTEX 100	14-Jun-95	2		150	3,400		140,000		17,000		NS
Dilution factor 5000 for BTEX & 2 for DEHP; MDL for Benzene 1000 ug/l	24-Apr-98	2	<	1,000	2,850		76,700		14,900		6.6
Dilution factor for BTEX 500	2-Aug-01	3	<	95	3,000		62,000		17,000		2.9
Dilution factor for BTEX 1000	6-Jun-02	2	<	200	1,000		30,000		6,000		5.6
Dilution factor for BTEX 100, Toluene 200	20-Nov-03	4	<	20	1,500		40,000		7,400	J	6.0
	15-Jun-04	2	<	100	1,400		46,000		6,600	J	4.0
Dilution factor for BTEX 100, Toluene 500	10-Aug-04	3	<	20	2,100		56,000		11,000	J	2.0
Dilution factor for BTEX 50	13-Jan-05	1	<	10	750		18,000		3,600	<	1.0
Lower Grab Water Sample; Dilution factor for BTEX 5	8-Apr-05	2	<	1	97		1,300		530	J	3.0
Upper Grab Water Sample; Dilution factor for Toluene 5	8-Apr-05	2	<	0.2	86		410		430	J	3.0
Dilution factor for BTEX 200	27-Jul-05	3	<	40.0	1,100		44,000		6,000	J	2.0
MW19-1											
Dilution factor for BTEX 200	12-Mar-98	1	<	40	219		4,270		1,160		190
	2-Aug-01	3	<	0.2	1.2	<	0.2	<	0.2		85
	5-Jun-02	2	<	0.22	0.18	<	0.24	<	0.2		0.6
	19-Nov-03	4	<	0.2	0.2	<	0.2	<	0.6	<	0.9
	15-Jun-04	2	<	0.2	0.2		1.7	<	0.6		11.0
	10-Aug-04	3	<	0.2	0.2	J	0.6	<	0.6	<	1.0
	13-Jan-05	1	<	0.2	0.2	<	0.2	<	0.6	J	4.0
Lower Grab Water Sample	8-Apr-05	2	<	0.2	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	8-Apr-05	2	<	0.2	0.2	<	0.2	<	0.6	<	1.0
	27-Jul-05	3	<	0.2	0.2	<	0.2	<	0.6	J	1.0
MW19-2											
Dilution factor for BTEX 250	12-Mar-98	1	<	50	1,130		9,830		6,010		8.8
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4	21		160		82		16
	5-Jun-02	2	<	0.22	19		36		39	<	0.4
	19-Nov-03	4	<	0.2	0.2	<	0.2	<	0.6	J	1.0
	15-Jun-04	2	<	0.2	1.2		29.0		4.8	<	1.0
	10-Aug-04	3	<	0.2	28.0		150.0		100.0	J	1.0
	12-Jan-05	1	<	0.2	0.2	<	0.2	<	0.6	J	3.0
Lower Grab Water Sample	8-Apr-05	2	<	0.2	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	8-Apr-05	2	<	0.2	0.2	<	0.2	<	0.6	<	1.0
	26-Jul-05	3	<	0.2	6.2		40.0		20.0	<	1.0
MW19-3											
	12-Mar-98	1	<	0.2	0.14	<	0.14	<	0.5	<	1.2
	2-Aug-01	3	<	0.2	0.2	<	0.2	<	0.2	<	0.5
	5-Jun-02	2	<	0.22	0.18	<	0.24	<	0.2	<	0.5
	19-Nov-03	4	<	0.2	0.2	<	0.2	<	0.6	<	0.9
MW19-4											
	12-Mar-98	1	<	0.2	0.14	<	0.14	<	0.5	<	1.3
	2-Aug-01	3	<	0.2	0.2	<	0.2	<	0.2	<	0.5
	6-Jun-02	2	<	0.22	0.18	<	0.24	<	0.2	<	0.5
	19-Nov-03	4	<	0.2	0.2	<	0.2	<	0.6	<	1.0
MW19-5											
Dilution factor for BTEX 5000	12-Mar-98	1	<	1,000	1,920		123,000		10,100		42
Dilution factor for BTEX 1000	2-Aug-01	3	<	190	870		79,000		5,200		3.2
Dilution factor for BTEX 500	7-Mar-02	1	<	140	300		10,000		1,700		1.3
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2	<	1,100	1,100		92,000		6,300	<	9.8

TABLE 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

THROUGH 3RD QUARTER 2005

MONITORING WELLS			ANALYTICAL PARAMETERS									
			SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes	
UNITS			ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30	
Dilution factor for BTEX 5000, for DEHP 20	5-Jun-02	2 duplicate	<	1,100	<	1,300		92,000		6,900	<	9.4
	19-Nov-03	4	<	0.2	<	0.2		4.3	J	0.9	<	0.9
	18-Dec-03	4 resample	<	0.2		3.7		240.0		24.0	<	0.9
	16-Jun-04	2	<	100.0		1,400		83,000		7,400	J	1.0
	10-Aug-04	3	<	200.0		2,800		140,000		14,000	J	1.0
Dilution factor for BTEX 10	13-Jan-05	1	<	2.0		64.0		3,100.0		340.0	<	1.0
Dilution factor for BTEX 200, Lower Grab Water Sample	9-Apr-05	2	<	40.0		1,000.0		27,000.0		5,300.0	J	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2	J	0.4		9.5	J	2.3	<	1.0
Dilution factor for BTEX 500	26-Jul-05	3	<	100.0		2,600.0		100,000.0		13,000.0	<	0.9
MW19-6												
Dilution factor for BTEX 200	15-Nov-99	4	<	62		94		3,400		500		32
Dilution factor for BTEX 2	1-Aug-01	3	<	0.4		14		390		47		28
	5-Jun-02	2	<	0.22		1.7		13		4.1		2.3
	18-Nov-03	4	<	0.2	<	0.2	J	0.3	<	0.6	J	6
	17-Jun-04	2	<	0.2	J	0.4		1.1		1	J	3.0
	10-Aug-04	3	<	0.2		4.6		38.0		18	J	4.0
	13-Jan-05	1	<	0.2		4.0		36.0		14	J	1.0
Lower Grab Water Sample	9-Apr-05	2	<	0.2		16.0		160.0		64	<	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2		11.0		74.0		37	<	1.0
	26-Jul-05	3	<	0.2		3.6		27.0		14	J	2.0
MW19-7												
Dilution factor for BTEX 50	15-Nov-99	4	<	16		100		51		1,400	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		6.7		6.6		13		680	<	0.4
Dilution factor for BTEX 5	7-Mar-02	1		3	<	1.3	<	1.3		250		1.6
	5-Jun-02	2		0.48		1.6		27		27	<	0.4
	19-Nov-03	4		4.7	J	0.4	J	0.3		460	J	1.0
	16-Jun-04	2	J	2.6		130.0		2,100.0		630	<	1.0
	16-Jun-04	2 duplicate	J	4.0		130.0		2,100.0		610	<	1.0
	10-Aug-04	3		2.0		1.6		1.3		20	<	1.0
Dilution factor for BTEX 2	12-Jan-05	1		6.1		90.0		240.0		760	<	1.0
	12-Jan-05	1 duplicate		2.9		45.0		120.0		380	<	1.0
Lower Grab Water Sample; Dilution factor for BTEX 25	7-Apr-05	2	J	9.5		210.0		2,700.0		1,400	<	1.0
Upper Water Grab Sample; Dilution factor for BTEX 10	7-Apr-05	2	J	13.0		370.0		5,600.0		2,300	<	1.0
Lower Grab Water Sample	27-Jul-05	3		2.2	<	0.2	J	0.2	J	2	<	0.9
Upper Grab Water Sample	27-Jul-05	3		1.5	<	0.2	J	0.5	J	2	<	1.0
MW19-8												
Dilution factor for BTEX 50	15-Nov-99	4	<	0.31	<	0.38	<	0.34	<	0.4	<	4.1
Dilution factor for BTEX 2	1-Aug-01	3		0.5	<	0.2	<	0.2	<	0.2	<	0.4
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2	<	0.4
	19-Nov-03	4	<	0.20	<	0.20	<	0.20	<	0.6	<	0.9
	17-Jun-04	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	11-Aug-04	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	12-Jan-05	1	<	0.20	J	0.30	<	0.20	<	0.6	<	1.0
	11-Apr-05	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	27-Jul-05	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
MW19-9D												
Dilution factor for BTEX 2	1-Aug-01	3	<	0.2	<	0.2	<	0.2	<	0.2		0.5
	5-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.9
	19-Nov-03	4	<	0.20	<	0.20	<	0.20	<	0.6	J	1.0
	16-Jun-04	2	<	0.20	<	0.20	<	0.20	<	0.6	J	2.0
	10-Aug-04	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	13-Jan-05	1	<	0.20	<	0.20	<	0.20	<	0.6	J	1.0

TABLE 2
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Groundwater Monitoring Data

THROUGH 3RD QUARTER 2005

MONITORING WELLS	ANALYTICAL PARAMETERS											
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)	
	UNITS		ug/l		ug/l		ug/l		ug/l		ug/l	
NEW JERSEY GROUNDWATER QUALITY STANDARDS (NJGWQS)			1		700		1,000		40		30	
	11-Apr-05	2	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
	27-Jul-05	3	<	0.20	<	0.20	<	0.20	<	0.6	<	1.0
MW19-10												
	17-Jun-04	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Aug-04	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	11-Aug-04	3 duplicate	<	0.2	<	0.2	<	0.2	<	0.6	<	0.9
	12-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Lower Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	26-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
MW19-11												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Lower Grab Water Sample	7-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Upper Grab Water Sample	7-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	26-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
GEI-2I												
	24-Feb-95	1	<	0.3	<	0.3		0.4	<	0.1		27
	6-Jun-02	2	<	0.22	<	0.18	<	0.24	<	0.2		1.4
GEI-2S												
	24-Feb-95	1	<	8.2		46		1,500		380		7.6
	25-Mar-98	1		NS		NS		NS		NS	B	2.5
	6-Jun-02	2		1.2		2.6		16		5.1		2.4
	18-Dec-03	4	<	0.2	<	0.2	J	0.4	<	0.6	<	1.0
Atmospheric Blank												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	8-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	26-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Rinsate Blank												
	14-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
	9-Apr-05											
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6	<	1.0
Trip Blank												
	13-Jan-05	1	<	0.2	<	0.2	<	0.2	<	0.6		NA
	9-Apr-05	2	<	0.2	<	0.2	<	0.2	<	0.6		NA
	27-Jul-05	3	<	0.2	<	0.2	<	0.2	<	0.6		NA

LEGEND

ug/L = micrograms per liter

NJGWQS = New Jersey Groundwater Quality Standards

ROD: Record of Decision

NA = Not Applicable

NS = Not Sampled

ND: No Detection

NR = Not Run

duplicate = Duplicate sample

Concentration exceeds NJGWQS

: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

NOTES

(1) Low flow sampling initiated 1st quarter 2002

(2) GEI series wells are piezometers installed by Weston

(3) GEI series wells, MW-19-3, and MW-19-4 are not sampled under revised groundwater monitoring program effective 1Q05.

TABLE 3
L.E.Carpenter and Company (LEC), Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Quarterly Groundwater Monitoring
MNA Analytical Data

Through 3rd Quarter 2005

Well ID	TU 23- 24/	Sampling Event	Heterotrophic Plate Count	Alkalinity to pH 8.3	Alkalinity to pH 4.5	TSS	TDS	Nitrate Nitrogen	Ammonia Nitrogen	Phosphorus (total)	Sulfate ⁽¹⁾	Methane
(units)			cfu/ml	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
MW-19		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	80	ND	207	30	589	ND	ND	0.054	3.6 J	150
		3Q04	630	ND	268	30.9	553	ND	ND	0.12	1.7 J	230
		1Q05	350	ND	241	17.2	347	0.22	ND	ND	7.4	230
		2Q05 ^L	390	NS	NS	10.8 J	413	2.8	ND	ND	33.3	3.0 J
		2Q05 ^U	1,400	NS	NS	14.8	455	3.2	ND	ND	30.4	2.0 J
		3Q05	3	NS	NS	67.2	1070	0.04	1.3	ND	6	33
MW-19-1		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	100	ND	162	ND	725	1.4	ND	ND	32.4	ND
		3Q04	49	ND	184	3.2 J	928	3.9	ND	ND	35.3	ND
		1Q05	43	ND	152	ND	404	2.1	ND	ND	27.9	ND
		2Q05 ^L	410	NS	NS	16.4	1,440	2.9	ND	ND	34.1	ND
		2Q05 ^U	350	NS	NS	3.2 J	1,430	2.8	ND	ND	32.9	ND
		3Q05	53	NS	NS	9.2 J	1,140	4.1	ND	ND	39	ND
MW-19-2		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	10	ND	335	6.0 J	704	ND	ND	ND	33.6	1600
		3Q04	87	ND	176	6.0 J	916	0.87	ND	ND	23.9	280
		1Q05	110	ND	395	5.2 J	588	0.093 J	0.13 J	ND	69.4	26
		2Q05 ^L	160	ND	ND	11.6 J	780	0.62	0.17 J	ND	29.6	ND
		2Q05 ^U	150	ND	ND	ND	750	0.64	ND	ND	29.3	ND
		3Q05	8	NS	NS	3.2 J	976	1	0.12 J	ND	27.2	120
MW-19-5		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3Q04	180	ND	228	14	942	0.06 J	ND	ND	15.7	2100
		1Q05	380	ND	126	3.6 J	174	0.49	ND	ND	15.8	34
		2Q05 ^L	3000	NS	NS	3.6 J	177	ND	ND	ND	12	380
		2Q05 ^U	100	NS	NS	3.6 J	141	0.43	ND	ND	8.7	ND
		3Q05	69	NS	NS	6.8 J	483	ND	ND	ND	7.7	1700
MW-19-6		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	35	ND	151	10.4 J	1670	1.6	ND	ND	37.3	140
		3Q04	110	ND	178	18.8	1240	1.1	ND	0.062	38.3	140
		1Q05	82	ND	204	11.2 J	544	1.7	ND	ND	44	130
		2Q05 ^L	23	NS	NS	18	1180	1.3	0.29 J	ND	33.5	44
		2Q05 ^U	160	NS	NS	ND	1190	1	ND	ND	32.7	96
		3Q05	90	NS	NS	40.8	1520	1.1	ND	ND	35	38
MW-19-7		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	110	ND	142	6.8 J	2110	0.21	ND	ND	47.2	5200
		2Q04D	88	ND	152	9.2 J	2040	0.21	0.15 J	ND	37.3	5400
		3Q04	2000	ND	175	4.4 J	1920	1.5	ND	ND	64.4	2400
	Dilution factor for Methane 250	1Q05	75	ND	200	6.0 J	774	3.2	ND	ND	29.1	10,000
	Dilution factor for Methane 250	1Q05D	77	ND	202	7.2 J	754	3.2	ND	ND	30.5	11,000
		2Q05 ^L	32	NS	NS	54	472	ND	0.50 J	0.45	ND	13,000
		2Q05 ^U	41	NS	NS	48	481	ND	0.35 J	0.32	ND	10,000
		3Q05 ^L	17	NS	NS	45.6	1450	ND	ND	0.3	19.2	2,900
		3Q05 ^U	17	NS	NS	31.6	1280	0.22	0.29 J	0.1	25.7	1,600
MW-19-8		2Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	45	ND	143	14.4	1120	ND	ND	0.15	22.8	79
		3Q04	15	ND	152	7.2 J	573	ND	0.24 J	0.12	11.5	790
	Dilution factor for Methane 5	1Q05	91	ND	142	25.2	1150	ND	ND	0.18	16.3	510
		2Q05	270	NS	NS	20	796	ND	ND	ND	23.7	5.3
		3Q05	ND	NS	NS	8.8 J	876	0.33	0.26 J	ND	20.3	74
MW-19-9D		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	210	ND	211	6.0 J	621	0.14	0.33 J	ND	18.2	1300
		3Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		1Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		3Q05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19-10		1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
		2Q04	34	ND	109	6.8 J	563	ND	ND	ND	18	2.6 J
		3Q04	18	ND	98	10.4 J	908	ND	ND	ND	19.2	3.3 J
		3Q04D	22	ND	97.8	10.8 J	890	ND	0.24 J	ND	17.9	2.9 J
		1Q05	29	ND	127	5.2 J	625	ND	ND	ND	16.9	74
		2Q05 ^L	170	NS	NS	32.4	653	ND	ND	ND	18.1	48
		2Q05 ^U	93	NS	NS	32	691	ND	0.12 J	ND	18.3	48
		3Q05	26	NS	NS	10.4 J	560	ND	ND	ND	16	ND
MW-19-11		1Q05	940	ND	205	4.8 J	4,750	2.2	ND	ND	65.6	9.9
		2Q05 ^L	NS	NS	NS	64	731	ND	0.42 J	ND	18	930
		2Q05 ^U	14	NS	NS	27.2	740	ND	ND	ND	17.2	1,200
		3Q05	63	NS	NS	106	555	ND	ND	0.11	21.5	26
Atmospheric Blank		1Q05	> 5700	ND	ND	ND	ND	ND	ND	ND	ND	ND
Rinsate Blank		1Q05	36	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

(1) Sulfate has a dilution factor of 5, except for blank samples or unless otherwise noted.

NS = Not Sampled

ND = Not Detected

^L Lower Grab Sample

^U Upper Grab Sample

Table 4
L.E.Carpenter and Company, Borough of Wharton, Morris County, New Jersey
MW19/Hot Spot 1 Quarterly Groundwater Monitoring
MNA Field Data

Through 3rd Quarter 2005

Well ID	Event	DO (mg/L)	pH	ORP (mV)	Conductivity (uS/cm)	Turbidity (NTU)	Temperature (°C)	Ferrous Iron (ppm)	Alkalinity (ppm)	CO2 (mg/L)
MW-19	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.97	7.23	24	890	2	13.94	NM	160	70
	3Q04	0.1	7.62	-10	1179	2	16.18	<10	200	95
	1Q05	0.2	7.67	100	590	5	11.82	9	NM ⁽¹⁾	121
	2Q05 ^L	1	7.84	NM	734	10	8.6	0.3	30	<10
	2Q05 ^U	1	7.69	NM	760	10	8.46	0.4	29	<10
	3Q05	1	7.03	185	1920	9	15.86	>10	110	60
MW-19-1	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	13.9	7.22	180	1373	10	13.9	NM	125	17
	3Q04	1	7.5	80	1910	10	18.49	0.2	90	28
	1Q05	1	7.8	213	676	10	11.49	0	NM ⁽¹⁾	30
	2Q05 ^L	0.8	7.6	NM	2540	22	9.15	0.2	75	<10
	2Q05 ^U	1	7.67	NM	2540	10	8.5	0.1	90	<10
	3Q05	1	7.22	208	2260	20	15.23	0.1	100	10
MW-19-2	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	4.45	7.3	83	1199	6	13.97	NM	210	60
	3Q04	5	7.45	59	1830	9	16.97	2	130	15.5
	1Q05	1	7.3	249	825	10	11.02	0	NM ⁽¹⁾	63
	2Q05 ^L	0.8	7.8	NM	1312	29	7.76	0.1	100	<10
	2Q05 ^U	0.8	7.76	NM	1316	10	8	0.1	100	10
	3Q05	1	7.59	204	1980	3	14.87	1	100	10
MW-19-5	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	10.16	7.02	41	1550	4	12.89	NM	130	70
	3Q04	1	7.26	87	1740	19	16.3	2	150	60
	1Q05	1	7.94	226	289	9	10.59	0	NM ⁽¹⁾	63
	2Q05 ^L	1	7.94	NM	2840	10	8	0	45	16
	2Q05 ^U	0.8	7.99	NM	2100	38	6.96	0	45	10.5
	3Q05	0.8	7.44	184	920	2	15.15	>10	100	35
MW-19-6	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.48	6.86	56	2640	10	15.24	NM	80	33
	3Q04	1	7.43	83	2490	4	16.61	0.4	125	20
	1Q05	1	7.73	241	867	12	11.79	0	NM ⁽¹⁾	41
	2Q05 ^L	1	7.5	NM	1870	27	10.64	0.1	75	15
	2Q05 ^U	1	7.48	NM	1790	2	9.89	1	80	20
	3Q05	1	7.28	191	3030	36	15.2	0.4	70	20
MW-19-7	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	5.89	6.82	48	380	6	14.34	NM	95	90
	3Q04	1	6.92	113	4040	2	16.77	1	75	70
	1Q05	0.6	7.16	281	1388	1	11.34	3	NM ⁽¹⁾	63
	2Q05 ^L	0.05	7.82	102	938	25	11.7	15	160	36
	2Q05 ^U	1	7.8	NM	961	49	11.22	15	200	29
	3Q05 ^L	0.8	7.03	90	2670	17	14.76	>10	95	0.8
MW-19-8	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.98	6.9	-24	2010	10	15.69	NM	125	30
	3Q04	0.4	7.52	48	1093	7	18.29	2	100	19
	1Q05	0.3	7.06	161	177	16	12.92	10	NM ⁽¹⁾	28
	2Q05	0.8	7.92	NM	1510	47	10.82	6	70	19
	3Q05	0	7.07	147	1820	2	18.86	3	80	19
MW-19-9D	1Q04	NS	NS	NS	NS	NS	NS	--	--	--
	2Q04	3.03	7.11	-28	480	63	14.64	--	--	--
	3Q04	0.2	7.4	8	545	35	15.7	--	--	--
	1Q05	1.5	7.14	193	871	267	11.58	--	--	--
	2Q05	0.05	7.91	NM	471	70	12.12	>10	70	18
	3Q05	0	7.35	189	552	2	16.4	NA	NA	NA
MW-19-10	1Q04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2Q04	3.82	6.78	85	1050	7	13.94	NM	80	25
	3Q04	0.1	7.35	107	1498	11	15.56	1.5	65	20
	1Q05	0.15	7.25	285	1039	28	13.19	2	NM ⁽¹⁾	20
	2Q05 ^L	0.8	7.47	NM	1209	52	12.18	0.4	70	13
	2Q05 ^U	1	7.48	NM	1282	41	11.18	1	75	13
	3Q05	1	7.62	212	1148	18	16.47	0.6	70	13
MW-19-11	1Q05	1.5	7.01	215	740	8	10.3	0	NM ⁽¹⁾	65
	2Q05 ^L	0.8	7.88	NM	1424	38	12.18	4	110	17
	2Q05 ^U	0.8	7.8	NM	1442	10	12.12	4	90	15
	3Q05	1	7.72	209	1155	77	16.63	1	80	12.5

Notes:

As mentioned in January 13, 2005 letter, only the MW-19 Hotspot wells will be sampled for MNA parameters due to the implementation of Source Reduction on the L.E. Carpenter property effective 1Q05.

-- Additional field MNA parameters not required for MW-19-9D.

⁽¹⁾ Laboratory analyzed for alkalinity due to destroyed field kits.

NS = Not Sampled

NM = Not Measured

Table 5
L.E. CARPENTER AND COMPANY (LEC)
Borough of Wharton, Morris County, New Jersey
Surface Water Monitoring Data

THROUGH 3RD QUARTER 2005

MONITORING WELLS	ANALYTICAL PARAMETERS										
	SAMPLE DATE	QUARTER	Benzene		Ethylbenzene		Toluene		Total Xylenes		bis-2-Ethylhexylphthalate (DEHP)
UNITS			ug/l		ug/l		ug/l		ug/l		ug/l
NEW JERSEY SURFACE WATER QUALITY STANDARDS (NJSWQS)			0.15		3,030		7,440		NCS		1.76
SW-D-1											
	8-Apr-05	2Q05	<	0.2	<	0.2	<	0.2	<	0.6	< 1.0
	26-Jul-05	3Q05	<	0.2	<	0.2	J	0.5	<	0.6	< 1.0
SW-D-2											
	8-Apr-05	2Q05		NS		NS		NS		NS	NS
	26-Jul-05	3Q05	<	0.2	J	0.5	<	0.2		6.1	38.0
SW-D-3											
	8-Apr-05	2Q05	<	0.2		21.0	<	0.2		79.0	J 2.0
	26-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	J	1.1	J 7.0
SW-R-1											
Composite -	20-Apr-05 ⁽¹⁾	2Q05	<	0.2		17.0	J	0.8		99.0	J 2.0
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	J 1.0
SW-R-2											
	20-Apr-05	2Q05		NS		NS		NS		NS	NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	< 0.9
SW-R-3											
	20-Apr-05	2Q05		NS		NS		NS		NS	NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	< 0.9
SW-R-4											
	20-Apr-05	2Q05		NS		NS		NS		NS	NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	< 0.9
SW-R-5											
	20-Apr-05	2Q05		NS		NS		NS		NS	NS
	25-Jul-05	3Q05	<	0.2	<	0.2	<	0.2	<	0.6	< 0.9

LEGEND

ug/L = micrograms per liter

NCS: No Criteria Specified

NS = Not Sampled

duplicate = Duplicate sample

Concentration exceeds NJSWQS

38.0

B: Analyte also detected in blank

J: Estimated value. Value is greater than or equal to the Method Detection Limit (MDL) and less than the Limit of Quantitation (LOQ)

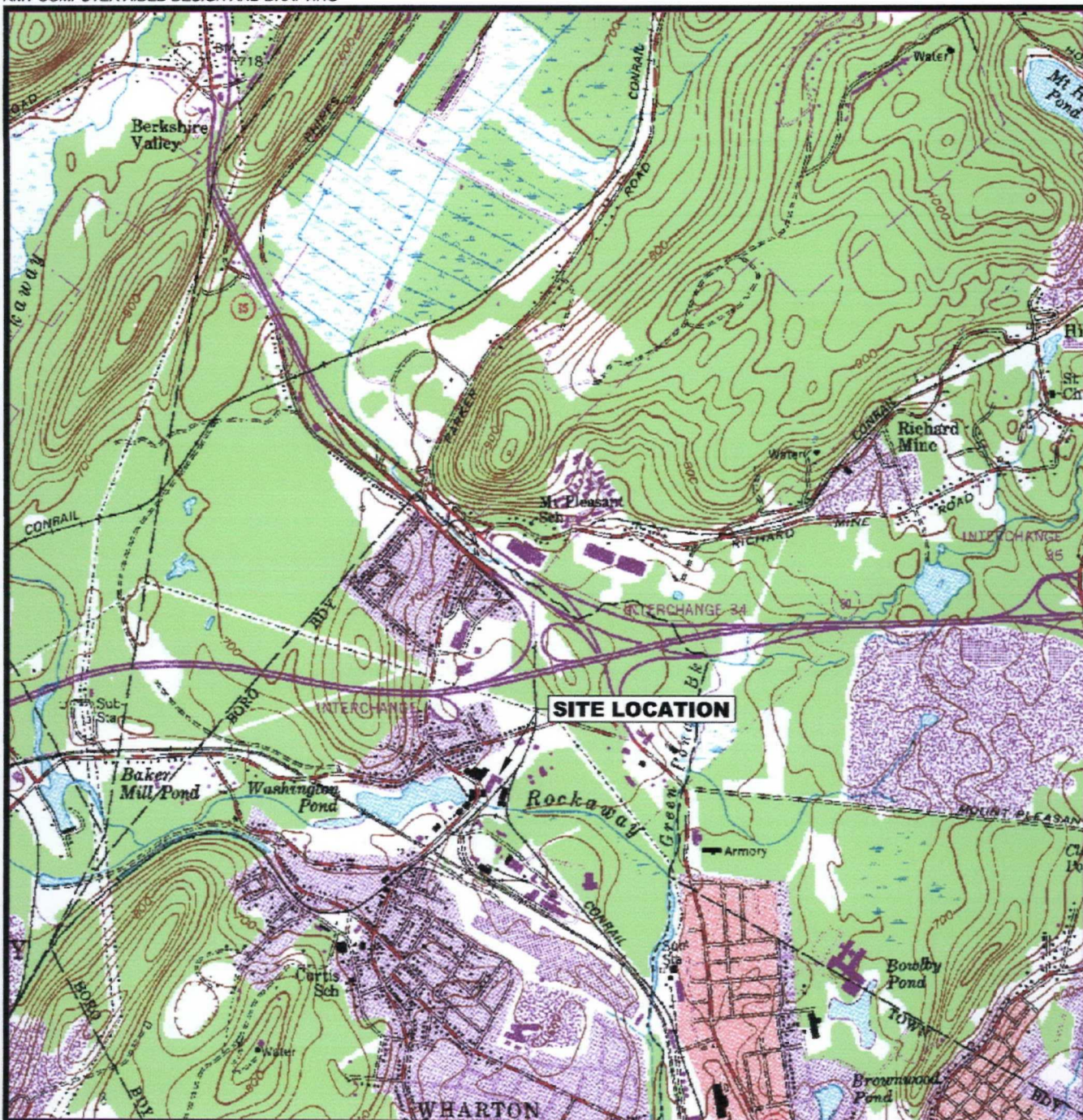
* = Detection limit is elevated due to interference from other parameter detections. Laboratory will be contacted to lower benzene detection limit to be below the NJSWQS.

One surface water sample was collected near the edge of the river immediately adjacent to the location of absorbent booms that were placed in order to prevent any migration into the river of sheen observed on top of quiescent water ponded within the wetland area. Due to bottle mislabeling and laboratory error, each of the five river sample bottles (R-1 through R-5) were analyzed individually instead of as a whole set. The highest concentration detected in any of the five laboratory results for the river sample are listed under SW-R-1 for April 2005.

Figures

10:45,1146 AM
No xrefs Attached.Plot Time:
Attached Xrefs:148560 Bytes
Tuesday, October 4, 2005Dwg Size:
Plot Date:Luddos
1"=2000'Operator Name:
Scale:

J:\065271\06527.10.15.dwg

PLOT DATA
Drawing Name:

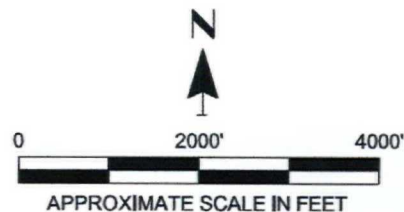
NEW JERSEY



QUADRANGLE LOCATION

SOURCE

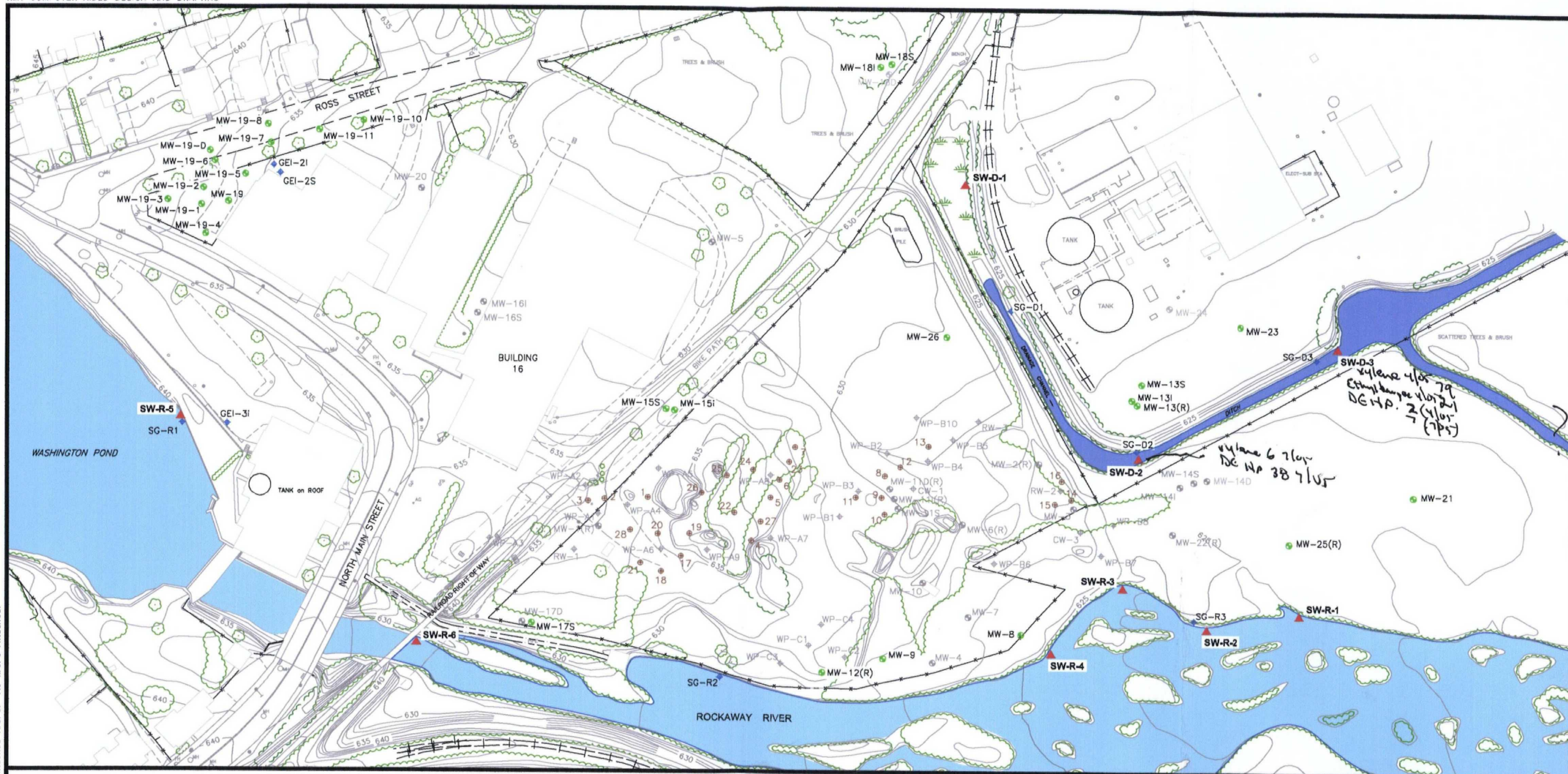
BASE MAP DEVELOPED FROM THE DOVER, NEW JERSEY 7.5 MINUTE U.S.G.S. TOPOGRAPHIC QUADRANGLE MAP, DATED 1954, PHOTOREVISED 1981.


RMT INC.

**LE CARPENTER
WHARTON, NEW JERSEY**
**SITE LOCATION MAP
3rd QUARTER 2005**

DRAWN BY:	SL
APPROVED BY:	JO
PROJECT NUMBER:	6527.10
FILE NUMBER:	6527.10.15.DWG
DATE:	OCTOBER 2005

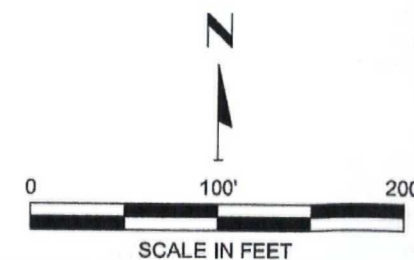
FIGURE 1

**LEGEND**

- | | |
|---|--|
| --- PROPERTY LINE | WP-B7 ◆ WELL POINTS |
| --- FENCE | SG-R1 ◆ RIVER POINT |
| MW-21 ● MONITORING WELL | SG-D1 ◆ DRAINAGE CHANNEL POINT |
| MW-24 ● ABANDONED MONITORING WELL | GEI-2I ◆ PIEZOMETERS |
| 13 ● ABANDONED ENHANCED FLUID RECOVERY WELL | SW-D-1 ▲ SURFACE WATER SAMPLING LOCATIONS (D = DITCH; R = RIVER) |
| RW-2 ◆ ABANDONED RECOVERY WELL | |
| CW-3 ◆ ABANDONED CAISSON WELLS | |

NOTES

1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.



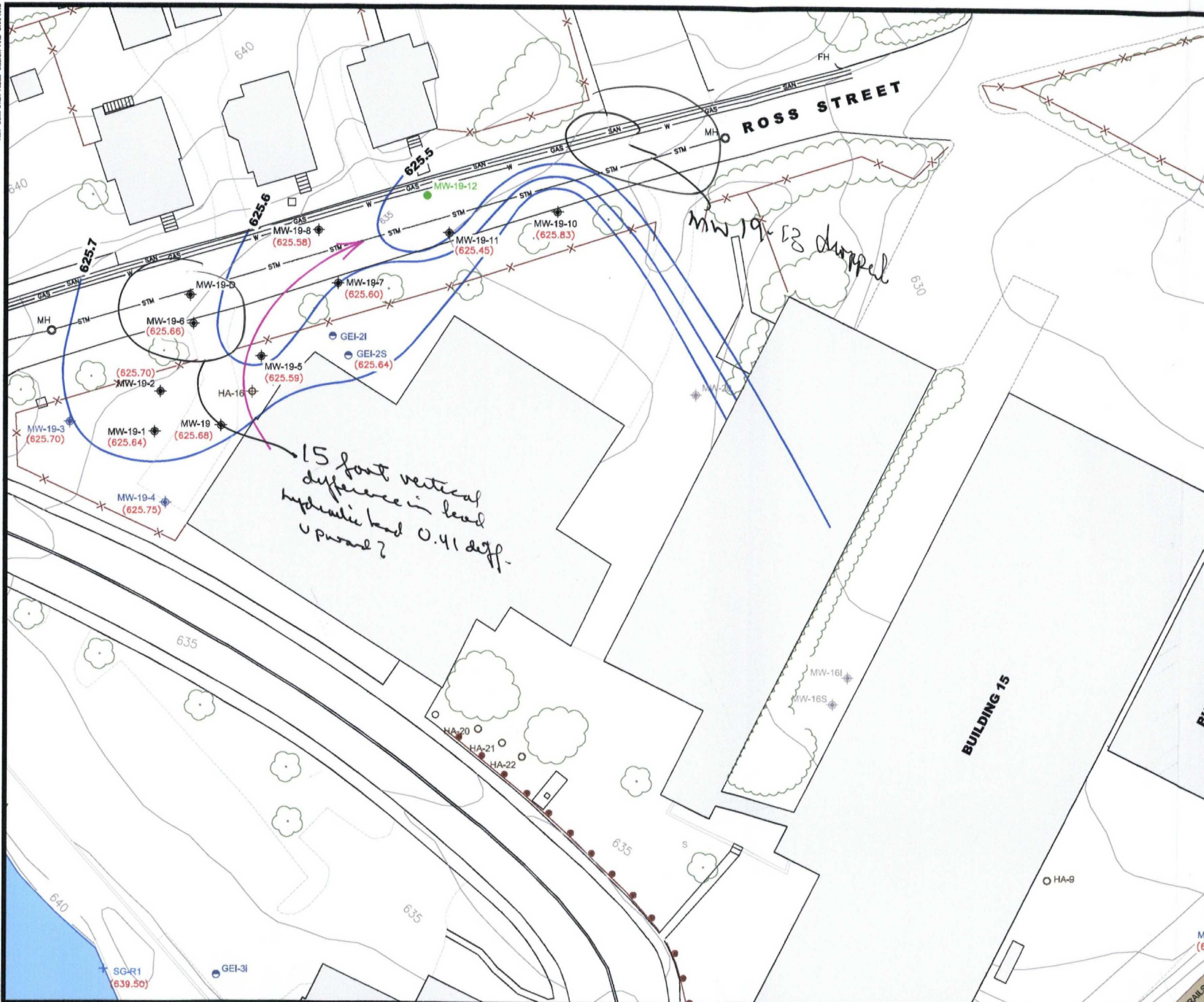
**LE. CARPENTER
WHARTON, NEW JERSEY**

**SITE PLAN WITH SAMPLE LOCATIONS
3rd QUARTER 2005**

DRAWN BY:	SL	PROJECT NUMBER:	6527.10
CHECKED BY:	JJD	FILE NUMBER:	6527.10.16.DWG
APPROVED BY:	NC	DATE:	OCTOBER 2005

RMT INC.

1143 HIGHLAND DRIVE, SUITE B
ANN ARBOR, MI. 48108-2237
PHONE: 734-971-7080
FAX: 734-971-9022

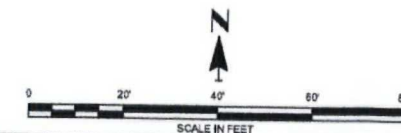


LEGEND

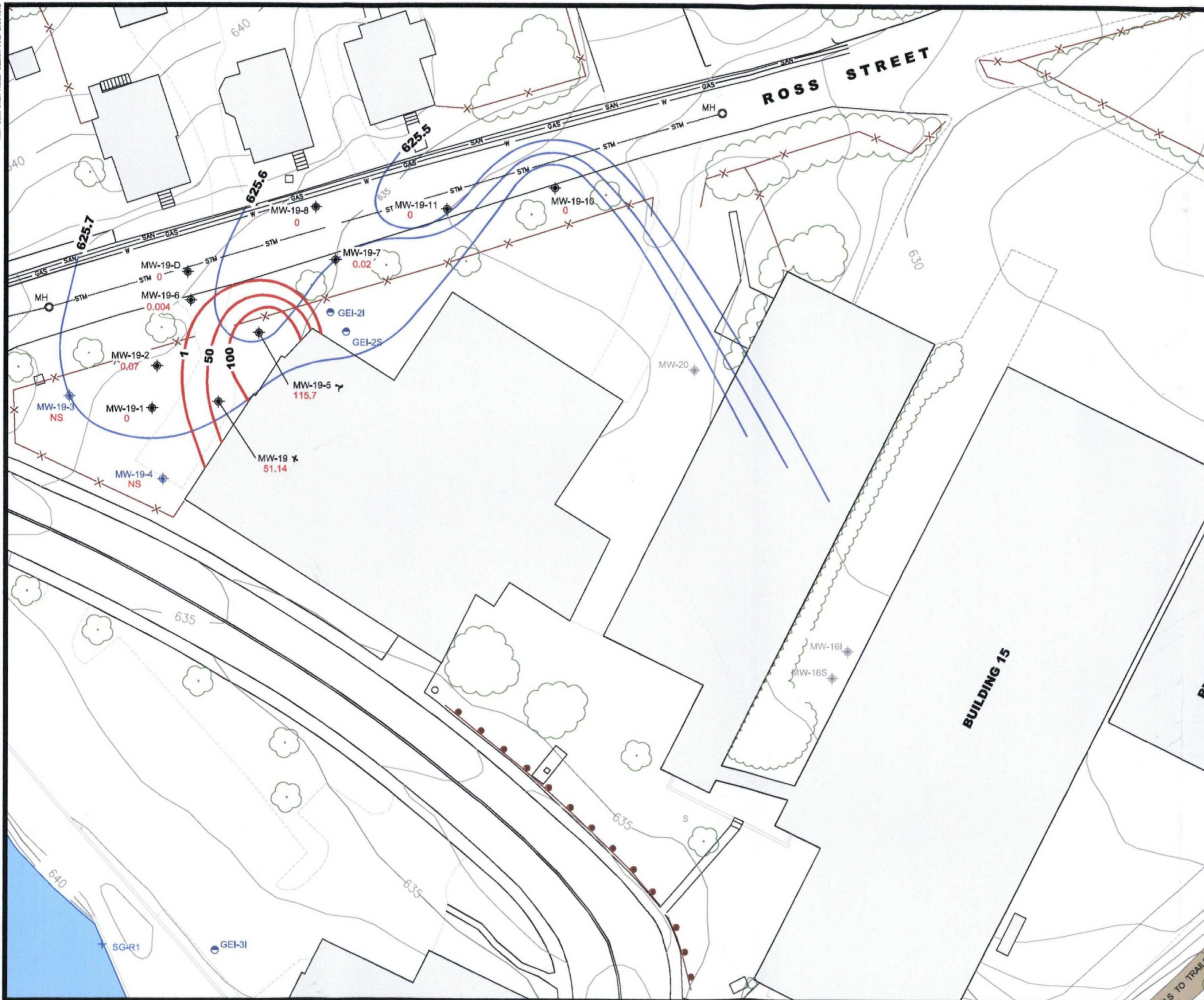
- MW-20 ABANDONED MONITORING WELL LOCATION AND NUMBER
- MW-19-7 (629.21) QUARTERLY STATIC WATER LEVEL ELEVATION IN FEET ABOVE NGVD
- GEI-21 QUARTERLY STATIC WATER LEVEL MONITORING LOCATION
- MW-19-12 PROPOSED MONITORING WELL LOCATION AND NUMBER
- FENCE LINE
- 626 GROUNDWATER ELEVATION CONTOUR
- SAN SANITARY SEWER
- G&W GAS AND WATER
- STM REGIONAL STORM SEWER LINE
- W WATER
- E ELECTRIC
- MH MANHOLE
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

NOTES

- BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.
- GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON JULY 25, 2005.
- OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.



<p>L.E. CARPENTER WHARTON, NEW JERSEY</p>				
<p>MW-18 / HOT SPOT 1 SHALLOW AQUIFER GROUNDWATER CONTOUR MAP 3rd QUARTER 2006</p>				
DRAWN BY:	SL	SCALE:	PROJECT NO.	6527.10
CHECKED BY:	JO	SHOWN:	FILE NO.	6527.10.17.DWG
APPROVED BY:	NC	DATE PRINTED:	<p>FIGURE 3</p>	
DATE:	OCTOBER 2005			
<p>RMT INC. 1143 HIGHLAND DRIVE, SUITE B ANN ARBOR, MI 48106-2237 PHONE: 313-971-7080 FAX: 313-971-9022</p>				



LEGEND

- MW-20 ABANDONED MONITORING WELL LOCATION AND NUMBER
- MW-19-7 QUARTERLY MONITORING WELL LOCATION AND NUMBER WITH CONCENTRATION OF TOTAL BTEX (mg/L)
- GEI-2I QUARTERLY STATIC WATER LEVEL MONITORING LOCATION
- FENCE LINE
- 626 GROUNDWATER ELEVATION CONTOUR
- SAN--- SANITARY SEWER
- G&W--- GAS AND WATER
- STM--- REGIONAL STORM SEWER LINE
- W--- WATER
- E--- ELECTRIC
- MH MANHOLE
- 20 ISOCONCENTRATION CONTOUR FOR TOTAL MAXIMUM BTEX (ppm) AS DEFINED BY PROFILE SAMPLING

- NOTES**
1. BASE MAP DEVELOPED FROM TOPOGRAPHIC SURVEY PROVIDED BY JAMES M. STEWART, INC. LAND SURVEYORS, DRAWING NO 2793-03.DWG, DATED 02-14-02.
 2. GROUNDWATER ELEVATIONS BASED ON LEVELS MEASURED ON JULY 25, 2005.
 3. NS = NOT SAMPLED.
 4. OVERHEAD POWER LINES ROUGHLY PARALLEL TO SANITARY SEWER, GAS AND WATER LINES.

SCALE IN FEET

0 20 40 60 80

L.E. CARPENTER WHARTON, NEW JERSEY				
MW-19 / HOT SPOT 1 SHALLOW AQUIFER ISOCONCENTRATION MAP 3rd QUARTER 2008				
DRAWN BY:	SL	SCALE:	PROJECT NO:	6527-10
CHECKED BY:	JO	SHOWN	FILE NO:	6527-10, 18.DWG
APPROVED BY:	NC	DATE PRINTED:	FIGURE 4	
DATE:	OCTOBER 2008			

1143 HIGHLAND DRIVE, SUITE B
 ANN ARBOR, MI 48106-2237
 PHONE: 313-671-7080
 FAX: 313-671-9022

Appendix A

Report Certification

REPORT CERTIFICATION
PURSUANT TO N.J.A.C. 7:26E-1.5

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement, which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Mr. Cristopher R. Anderson

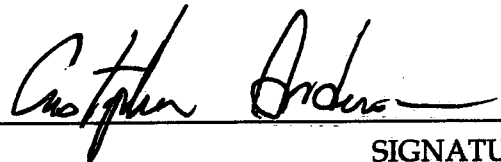
PRINTED NAME

Director, Environmental Services

TITLE

L.E. Carpenter & Company

COMPANY



SIGNATURE

10/12/05

DATE

Appendix B
NJDEP Letter dated July 20, 2005



State of New Jersey

Department of Environmental Protection

Richard J. Codey
Acting Governor

Bradley M. Campbell
Commissioner

Christopher Anderson
Director Environmental Affairs
L.E. Carpenter and Company
33587 Walker Road
Avon Lake, OH 44012

JUL 20 2005

Re: L.E. Carpenter Superfund Site
Wharton Borough, Morris County, New Jersey

The New Jersey Department of Environmental Protection (NJDEP or Department) has completed a review of the 1st Quarter Monitoring Report dated April 28, 2005. This document was prepared by RMT, Inc. on behalf of L.E. Carpenter and Company (LE). The NJDEP finds the report to be conditionally acceptable provided the following comments are addressed.

General Comment:

The NJDEP reiterates the requirement that any wells must be profile sampled to identify the most contaminated zone(s) when the new sampling program is established. Subsequent sampling would then target this zone.

Specific Comment:

Response to Regulatory Review of the 3rd Quarter 2004 Monitoring Report, page 1-3: The report states that 2 surface water samples were collected from the Air Products drainage ditch as part of the 2Q05 sampling event. It has been repeatedly requested in previous comments that the known discharge points (areas of sheen) at the Rockaway River and the Drainage Ditch be sampled immediately or during the next quarterly sampling event. The NJDEP is unclear why the Rockaway River was not sampled as part of the 1st Quarter 2005 sampling event as previously requested by the Department. This issue shall be clarified.

Should you have any questions please contact me at (609) 633-1416.

Sincerely,

Anthony Cinque, Case Manager
Bureau of Case Management

C: Nick Clevett, RMT
Steve Cipot, USEPA
George Blyskun, BGWPA
John Prendergast, BEERA

Appendix C

3rd Quarter 2005 Monitoring Well Sampling Data



PROJECT NAME:	<u>L. E. Carpenter</u>
PROJECT NUMBER:	<u>6527.10</u>
LOCATION:	<u>Wharton, NJ</u>
DATES OF FIELD WORK:	<u>July 25 - 27, 2005</u>
PURPOSE OF FIELD WORK:	<u>3rd Quarter Groundwater Monitoring</u>
WORK PERFORMED BY:	<u>Jennifer Overvoorde</u>

J Overvoorde
Signed

7/25/05
Date

[Signature]
OC'd By

8/18/05
Date



GENERAL NOTES

PROJECT NAME: L. E. CarpenterDATE: 7/25/05PROJECT NUMBER: 6527.10AUTHOR: J. OvervoordeTIME ARRIVED ON SITE: 12³⁰TIME LEFT SITE: 6²⁰

WEATHER:

Temperature: 88 °FWind: ~10 MPHVisibility: Clear w/ few clouds

WORK/SAMPLING PERFORMED:

collected water levelsorganize bottlessite walk - MW-18 S+I still presentMW-26 broken off below grade - cover w/ ^{thick} iron pieceMW-25(R), MW-24, MW-8, MW-9, MW-12(R) still presentsampled river surface water locations:(SW-R-1 through SW-R-5)

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

COMMUNICATIONS:

Name/Representing: Jim DexterSubject/Comments: progress rpt, driving on new graded areaSigned: J Overvoorde



GENERAL NOTES

PROJECT NAME: L. E. Carpenter DATE: 7/26/05
PROJECT NUMBER: 6527.10 AUTHOR: J. Overvoorde
TIME ARRIVED ON SITE: 6³⁰ am TIME LEFT SITE: 7³⁰ pm

WEATHER:

Temperature: 95 F° Wind: 5-10 MPH Visibility: clear, sunny, sticky, hot

WORK/SAMPLING PERFORMED: collect ditch surf. water samples (SW-D1 thru SW-D3)

start 3rd quarter sampling:

MW-19-11 (9²¹-10⁰⁰), MW-19-10 (11⁴⁸-12²⁸) w/ Dup-01

MW-19-6 (14²⁷-15⁰²) w/ Atm. Blnk 15¹⁵

MW-19-2 (15⁵⁵-16²⁰), MW-19-5 (18⁰⁰-18²⁵)

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

COMMUNICATIONS:

Name/Representing: Jim Dexter

Subject/Comments: re: status update, smell of MW-19-5

Signed: J Overvoorde

OC: [Signature]



GENERAL NOTES

PROJECT NAME: L. E. CarpenterDATE: 7/27/05PROJECT NUMBER: 6527.10AUTHOR: J. OvervoordeTIME ARRIVED ON SITE: 7⁰⁰ amTIME LEFT SITE: 17⁰⁰

WEATHER:

Temperature: 90 °FWind: 10-15 MPHVisibility: partly cloudy, rain over-night

WORK/SAMPLING PERFORMED:

finish groundwater sampling, pack/clean-upMW-19-1 (720-920) w/ MS/MSDMW-19-9D (822-847), MW-19 (1015-1045),MW-19-7 Upper (1205-1225), MW-19-7 Lower (1430-1450)MW-19-8 (1333-1353), RB-01 (1645)

PROBLEMS ENCOUNTERED/CORRECTIVE ACTION TAKEN:

COMMUNICATIONS:

Name/Representing: —Subject/Comments: —Signed: J OvervoordeQC: [Signature]



WATER LEVEL DATA

PROJECT NAME: LE Carpenter

DATE: July 25, 2005

PROJECT NUMBER: 6527.10

SAMPLER: J. Overvoorde

Well ID	Time	Top of Casing Elevation	Historical Depth to Water (Jan 05)	Depth to Water (feet)	Depth to Bottom (feet)	Water Elev (MSL)
MW-19	1546	NA	8.19	10.22	16.56	NA
MW19-1	1554	/	7.74	10.00	15.00	/
MW19-2	1601	/	8.62	10.60	15.93	/
MW19-3	1558	/	8.81	11.00	15.30	/
MW19-4	1549	/	7.21	9.68	16.01	/
MW19-5	1543	/	8.01	9.97	15.43	/
MW19-6	1604	/	8.29	10.16	19.63	/
MW19-7	1630	/	7.61	9.40	20.20	/
MW19-8	1626	/	7.98	9.78	19.52	/
MW19-9D	1622	/	7.94	9.85	NA-pump	/
MW19-10	1647	/	6.48	8.60	20.10	/
MW19-11	1644	/	6.40	8.22	15.79	/
GEI-2S	1616	/	9.55	11.43	19.61	/
GEI-2I	1610	/	9.64	11.57	39.35	/
GEI-3I ④	1500	/	11.81	13.72	NM	■
MW-15S	1652	/	8.85	10.78	NM	/
MW-15I	1655	/	8.80	10.72	NM	/
SGR-1	1457	↓	1.95	1.42	NA	↓

④ Not Secure - processing top broken

J Overvoorde 7/25/05

Signed

QC'd By

Date



EQUIPMENT SUMMARY

SHEET: 6 of 29

DATE: 8/27/05

CHECKED BY: EES

PROJECT: L. E. Carpenter

PROJECT NO:

6527.10 REVIEWED BY:

WATER LEVEL MEASUREMENTS WERE COLLECTED WITH:

QED MP-30

Name and Model Number of Instrument

LEC

Serial Number (if applicable)

DEPTH TO BOTTOM OF WELL MEASUREMENTS WERE COLLECTED WITH:

QED MP-30

Name and Model Number

LEC

Serial Number (if applicable)

PURGING METHOD:

wells: QED Portable Bladder

Name and Model Number of Pump or Type of Bailer

LEC

Serial Number (if applicable)

SW: stainless steel pond sampler

PURGE WATER DISPOSAL METHOD:

55 gal drums

SAMPLING METHOD:

QED Portable Bladder

Name and Model Number of Pump or Type of Bailer

LEC

Serial Number (if applicable)

Jephlon-lined polyeth. - well dedicated

Turbing Type

FILTRATION METHOD:

N/A

Name and Model Number of Device

Serial Number (if applicable)

Filter Type

Tubing Type

DECONTAMINATION AND FILLED BLANK WATER SOURCE:

Potable Water Source (if applicable)

laboratory + Chem source
DI Water Source

**METER CALIBRATION LOG**PROJECT NAME: L. E. CarpenterDATE: 7/26/05PROJECT NUMBER: 6527.10SAMPLER: J. OvervoordeMODEL: QED MP-20SERIAL NO.: LEC**pH METER**

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
3.92	4.00	7.15	7.00	900
4.02	4.00	7.11	7.00	1835

Buffer Lot Numbers: pH 4: 2408349 pH 7: 2410406**CONDUCTIVITY METER**

Temp. of Calibration Soln.	Corrected Cond. @ 25°C	Time
24.12	1413	900
25.05	1413	1835

Calibration Solution Lot Number: 2408094Calibration Range for Solution 1412 ± 1 μmhos/cm @ 25°C**REDOX METER***

Temp. C°	E _H Reading (mV)	Time
24.12	235	900
NR	240	1835

Calibration Solution Lot Number: NACalibration Range for Solution 225 - 250 mVMODEL: Hach 2100PSERIAL NO.: ~~6527~~ LE Carpenter**Turbidity Meter**

Gal. Value (NTU)	Reading (NTU)	Time
0 - 10 range	6	900
0 - 100 range	51	
0 - 1,000 range	500	
0 - 10 range	6	1835
0 - 100 range	51	
0 - 1,000 range	501	

Problems/Corrective Actions: * ORP doesn't seem to move down past 175 mV.J. Overvoorde
Signed7/26/05
Date[Signature]
QC'd By8/18/05
Date

**METER CALIBRATION LOG**PROJECT NAME: L. E. CarpenterDATE: 7/27/05PROJECT NUMBER: 6527.10SAMPLER: J. OvervoordeMODEL: QED-MP-20SERIAL NO.: LEC**pH METER**

pH 4 pre-calibration	pH 4 after calibration	pH 7 pre-calibration	pH 7 after calibration	Time
3.89	4.0	7.13	7.00	7 ¹⁰
4.02	4.0	7.17	7.00	15 ¹⁵

Buffer Lot Numbers: pH 4: 2408349 pH 7: 2410406**CONDUCTIVITY METER**

Temp. of Calibration Soln	Corrected Cond. @ 25°C	Time
24.11	1413	7 ¹⁰
24.92	1413	15 ¹⁵

Calibration Solution Lot Number: 2408094
Calibration Range for Solution 1412 ± 1 μmhos/cm @ 25°C**REDOX METER***

Temp. °C	EH Reading (mV)	Time
24.11	231	7 ¹⁰
24.92	239	15 ¹⁵

Calibration Solution Lot Number: NA
Calibration Range for Solution 225 – 250 mVMODEL: Hach 2100 PSERIAL NO.: LE Carpenter**Turbidity Meter**

Gal Value (NTU)	Reading (NTU)	Time
0 – 10 range	6	7 ¹⁰
0 – 100 range	52	
0 – 1,000 range	502	
0 – 10 range	6	15 ¹⁵
0 – 100 range	51	
0 – 1,000 range	501	

Problems/Corrective Actions: * ORP doesn't seem to be workingJ Overvoorde
Signed7/27/05
Date[Signature]
QC'd By8/10/05
Date

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/25/05	By: EBS	Date: 8/18/05	6527.10

SAMPLE NO.: SW-R-5 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other NA
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other NA
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>1510</u>	DATE: <u>7/25/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____ SU _____ TEMP. _____ °C _____ D.O. _____ mg/L			
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ µmhos/cm Ferr. Fe _____ mg/L CO ₂ _____			
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				TURBIDITY: _____ NTU ORP _____ mV Alk _____ mg/L			
DEPTH TO WATER: _____ T/ _____				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____ COLOR: _____			
DEPTH TO BOTTOM: _____ T/ _____				TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____ COLOR: _____				FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____			
COMMENTS: _____				COLOR: _____			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other				COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
53	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: Lab Courier
AIRBILL NUMBER: NA SIGNED: J. Orenvorde DATE: 7/25/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/25/05	By: [Signature]	Date: 8/18/05	6527.10

SAMPLE NO.: SW-R-1 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other NA
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other NA
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>17²³</u>	DATE: <u>7/25/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____		TEMP. _____ °C	D.O. _____ mg/L
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ umhos/cm		Ferr. Fe _____ mg/L	CO ₂ _____
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				TURBIDITY: _____ NTU		ORP _____ mV	Alk _____ mg/L
DEPTH TO WATER: T/ <u>NA</u>				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____	
DEPTH TO BOTTOM: T/ <u>NA</u>				TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				COLOR: _____		FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other			
COMMENTS: _____				COLOR: _____			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other				COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
3	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glaes	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 ml	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: Lab Courier
AIRBILL NUMBER: NA SIGNED: D Overmoore DATE: 7/25/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/25/05	By: EBS	Date: 8/18/05	6527.10

SAMPLE NO.: SW-R-2 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other N/A
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other NA
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

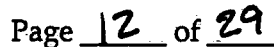
PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>1730</u>	DATE: <u>7/25/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		pH: _____		SU		TEMP. _____ °C	D.O. _____ mg/L
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		COND. _____ µmhos/cm		Ferr. Fe _____ mg/L		CO ₂ _____	
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder		TURBIDITY: _____ NTU		ORP _____ mV		Alk _____ mg/L	
DEPTH TO WATER: <u>17</u> NA		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____			
DEPTH TO BOTTOM: <u>T/</u>		TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv					
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____		FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other					
COMMENTS: _____		COLOR: _____					
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other		COMMENTS: _____					

[illegible]

Stabilization complete when 3 successive readings w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₇						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
53	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: J. Overoode DATE: 7/25/05



PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/25/03	By: EBS	Date: 8/18/03	6527.10

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>17⁴⁰</u>	DATE: <u>7/25/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____ SU _____ TEMP. _____ °C _____ D.O. _____ mg/L			
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ umhos/cm Ferr. Fe _____ mg/L CO ₂ _____			
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				TURBIDITY: _____ NTU ORP _____ mV Alk _____ mg/L			
DEPTH TO WATER: T/ <u>NA</u>				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other <u>NA</u> COLOR: _____			
DEPTH TO BOTTOM: T/ <u>NA</u>				TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____ COLOR: _____				FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____			
COMMENTS: _____				COLOR: _____			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other				COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
53	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: toverwande DATE: 7/25/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/25/05	By: EES	Date: 8/1/05	6527.10

SAMPLE NO.: SW-R-4 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other MA
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other MA
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>7:55</u>	DATE: <u>7/25/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		pH: _____		SU _____		TEMP. _____ °C	D.O. _____ mg/L
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		COND. _____ µmhos/cm		Ferr. Fe _____ mg/L		CO ₂ _____	
METHOD: <input type="checkbox"/> Baller, <input checked="" type="checkbox"/> Pump, Bladder		TURBIDITY: _____ NTU		ORP _____ mV		Alk _____ mg/L	
DEPTH TO WATER: T/ <u>NA</u>		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____			
DEPTH TO BOTTOM: T/ <u>NA</u>		TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very		FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very		COLOR: _____		COLOR: _____			
COMMENTS: _____		COMMENTS: _____		COMMENTS: _____			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other		COMMENTS: _____		COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
63	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: J Overmoe DATE: 7/25/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/26/03	By: EES	Date: 8/18/05	6527.10

SAMPLE NO.: SW-D-1 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other NA

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other NA

SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: 7/26/05	DATE: 7/5
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____		TEMP. _____ °C	
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ µmhos/cm		D.O. _____ mg/L	
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				Ferr. Fe _____ mg/L		CO ₂ _____	
DEPTH TO WATER: T/ _____				TURBIDITY: _____ NTU		ORP _____ mV	
DEPTH TO BOTTOM: T/ _____				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		Alk _____ mg/L	
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very		COLOR: _____	
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very				FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
COMMENTS: _____				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other				COLOR: _____			
				COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₈						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
53	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: D Overmoore DATE: 7/26/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/26/05	By:	Date:	

SAMPLE NO.: SW-D-2 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other N/A
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other N/A
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>720</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____ SU _____ TEMP. _____ °C _____ D.O. _____ mg/L			
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ umhos/cm Ferr. Fe _____ mg/L CO ₂ _____			
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				TURBIDITY: _____ NTU ORP <u>NA</u> mV Alk _____ mg/L			
DEPTH TO WATER: T/ <u>NA</u>				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____ COLOR: _____			
DEPTH TO BOTTOM: T/ <u>NA</u>				TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____ COLOR: _____				FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____			
COMMENTS: _____				COLOR: _____			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other				COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
63	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: J Overmoore DATE: 7/26/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/26/05	By:	Date:	6527.10

SAMPLE NO.: SW-D-3 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other N/A
WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other N/A
SAMPLE TYPE: ☐ GW ☐ WW ☒ SW ☐ DW ☐ Leachate ☐ Other

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>730</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		pH: _____		SU _____		TEMP. _____ °C	D.O. _____ mg/L
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters		COND. _____ umhos/cm		Ferr. Fe _____ mg/L		CO ₂ _____	
METHOD: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump, Bladder		TURBIDITY: _____ NTU		ORP _____ mV		Alk _____ mg/L	
DEPTH TO WATER: _____ T/		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____			
DEPTH TO BOTTOM: _____ T/		TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv		FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		COLOR: _____		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv		COLOR: _____		COMMENTS: _____			
COMMENTS: _____		DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other		COMMENTS: _____			

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
3	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	G	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096862 DATE SHIPPED: 7/26/05 METHOD: lab courier
AIRBILL NUMBER: NA SIGNED: Devenor DATE: 7/26/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/26/05</u>	By: Date:	6527.10

SAMPLE NO.: <u>MW-19-11</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other	

PURGING	TIME: <u>911</u>	DATE: <u>7/26/05</u>	SAMPLE	TIME: <u>1000</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <u>4.73</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: <u>7.72</u> SU	TEMP: <u>16.63</u> °C	D.O. <u>1.0</u> mg/L		
TOTAL VOLUME REMOVED: <u>20.25</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. <u>155</u> µmhos/cm	Ferr. Fe <u>1</u> mg/L	CO ₂ <u>12.5</u>		
METHOD: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: <u>77</u> NTU	ORP <u>209</u> mV	Alk <u>80</u> mg/L		
DEPTH TO WATER: <u>8.10</u> T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	COLOR: <u>clear w/ tan streaks</u>			
DEPTH TO BOTTOM: <u>18.79</u> T/OC + 0.1	TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Very				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	COLOR: <u>brown</u>	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Very	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other	COMMENTS:				

Time	Purge Rate (gal or ml/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
911	450	7.71	1000+	249	1.0	1265	16.72	8.10	Initial
926		7.76	258	232	1.0	1227	16.51	8.10	2.25
931		7.79	190	222	1.0	1195	16.61	8.10	4.5
936		7.71	172	220	1.0	1187	16.55	8.10	6.75
941		7.72	154	218	1.0	1173	16.63	8.10	9.0
946		7.72	141	216	1.0	1170	16.60	8.10	11.25
951		7.74	137	215	1.0	1162	16.56	8.10	13.5
956		7.73	110	213	1.0	1145	16.64	8.10	15.75
1001		7.70	103	211	1.0	1153	16.62	8.10	18.0
1006		7.72	57	209	1.0	1155	16.63	8.10	20.25

Stabilization complete when 3 successive readings w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES:						
			A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: <u>0096960</u>	DATE SHIPPED: <u>7/26/05</u>	METHOD: <u>Fed Ex</u>
AIRBILL NUMBER: <u>NA</u>	SIGNED: <u>JO Carpenter</u>	DATE: <u>7/26/05</u>



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: 7/26/05	By: EES Date: 8/16/05	6527.10

SAMPLE NO.: MW-19-10	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: 1148	DATE: 7/26/05	SAMPLE	TIME: 1228	DATE: 7/26/05
WELL VOLUME: 7.80 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: 7.62 SU	TEMP. 16.47 °C	D.O. 1.0 mg/L		
TOTAL VOLUME REMOVED: 10 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. 1198 µmhos/cm	Ferr. Fe .6 mg/L	CO ₂ 13		
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: 18 NTU	ORP 212 mV	Alk 70 mg/L		
DEPTH TO WATER: 7.55 T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: clear w/ floccules			
DEPTH TO BOTTOM: 20.10 T/OC + 0.1	TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: lt tan	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS: Dup-01				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1148	250	7.72	49	218	1.0	1037	17.31	7.55	Initial
1153		7.66	49	216	1.0	1046	17.73	7.55	1.25
1158		7.79	40	216	1.0	1093	16.41	7.70	2.5
1203		7.70	33	216	1.0	1093	16.30	7.70	3.75
1208		7.65	28	216	1.0	1110	16.27	7.70	5.0
1213		7.61	26	215	1.0	1133	16.23	7.72	6.25
1218		7.56	24	215	1.0	1139	16.30	7.72	7.5
1223		7.58	21	213	1.0	1150	16.53	7.80	8.75
1228	↓	7.62	18	212	1.0	1148	16.47	7.80	10

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096860	DATE SHIPPED: 7/26/05	METHOD: Fed Ex
AIRBILL NUMBER: NA	SIGNED: Drenthorpe	DATE: 7/26/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO	Date: <u>7/26/05</u> By: <u>BBS</u>	Date: <u>8/10/05</u> 6527.10

SAMPLE NO.: <u>MW-19-6</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other	

PURGING	TIME: <u>1427</u>	DATE: <u>7/26/05</u>	SAMPLE	TIME: <u>1502</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <u>6.13</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: <u>7.28</u>	SU	TEMP. <u>15.20</u> °C	D.O. <u>1.0</u> mg/L	
TOTAL VOLUME REMOVED: <u>15.75</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. <u>3030</u> μ mhos/cm	Ferr. Fe. <u>4</u> mg/L	CO ₂ <u>80</u>		
METHOD: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: <u>36</u> NTU	ORP <u>191</u> mV	Alk <u>70</u> mg/L		
DEPTH TO WATER: <u>9.80</u> T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>clr w/ floatie</u>			
DEPTH TO BOTTOM: <u>19.63</u> T/OC +0.1	TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>tan</u>	FILTRATE (0.45 μ m) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other	COMMENTS: <u>Atm - 01 at 15'</u>				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity μ mhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1427	450	7.36	103	188	1.0	2950	16.64	9.80	Initial
1432		7.27	68	187	1.0	3020	15.14	9.80	2.25
1437		7.30	60	187	0.8	3030	15.51	9.80	4.5
1442		7.29	56	186	0.8	3050	15.05	9.75	6.75
1447		7.24	37	188	1.0	3040	15.04	9.70	9.0
1452		7.30	37	190	1.0	3020	15.14	9.70	11.25
1457		7.29	36	191	1.0	3040	14.90	9.70	13.5
1502	↓	7.28	36	191	1.0	3030	15.20	9.71	15.75

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: <u>0096860</u>	DATE SHIPPED: <u>7/26/05</u>	METHOD: <u>Fed Ex</u>
AIRBILL NUMBER: <u>NA</u>	SIGNED: <u>A. Orenvord</u>	DATE: <u>7/26/05</u>



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/26/05</u>	By: <u>EBS</u> Date: <u>8/16/05</u>	6527.10

SAMPLE NO.: <u>MW-19-2</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: <u>1555</u>	DATE: <u>7/26/05</u>	SAMPLE	TIME: <u>1620</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <u>13.6</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: <u>7.59</u> SU	TEMP. <u>14.87</u> °C	D.O. <u>6.0</u> mg/L		
TOTAL VOLUME REMOVED: <u>7.5</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. <u>1980</u> µmhos/cm	Ferr. Fe <u>1</u> mg/L	CO ₂ <u>10</u> ppm		
METHOD: <input type="checkbox"/> Baller. <input checked="" type="checkbox"/> Pump. Bladder	TURBIDITY: <u>3</u> NTU	ORP <u>204</u> mV	Alk <u>100</u> mg/L		
DEPTH TO WATER: <u>10.55</u> T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>clear</u>			
DEPTH TO BOTTOM: <u>15.93</u> T/OC <u>+0.1</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>clr</u>	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS:				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1555	300	7.46	12	197	1.0	1980	15.45	10.55	Initial
1600		7.49	10	200	1.0	1970	15.27	10.55	1.5
1605		7.53	7	202	1.0	1960	14.99	10.55	3.0
1610		7.56	5	203	1.0	1960	14.94	10.55	4.5
1615		7.57	3	203	1.0	1970	14.92	10.55	6.0
1620		7.59	3	204	1.0	1980	14.87	10.55	7.5

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES:						
			A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: <u>0096860</u>	DATE SHIPPED: <u>7/26/05</u>	METHOD: <u>Fed Ex</u>
AIRBILL NUMBER: <u>NA</u>	SIGNED: <u>dtrennarde</u>	DATE: <u>7/26/05</u>



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/26/05</u>	By: Date:	6527.10

SAMPLE NO.: <u>MW-19-S</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other	

PURGING	TIME: <u>1800</u>	DATE: <u>7/26/05</u>	SAMPLE	TIME: <u>1825</u>	DATE: <u>7/26/05</u>
WELL VOLUME: <u>3.75</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: <u>7.44</u> SU	TEMP. <u>15.15</u> °C	D.O. <u>0.8</u> mg/L		
TOTAL VOLUME REMOVED: <u>11.25</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. <u>920</u> umhos/cm	Ferr. Fe <u>7.9</u> mg/L	CO ₂ <u>35</u> ppm		
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: <u>2</u> NTU	ORP <u>184</u> mV	Alk <u>100</u> mg/L		
DEPTH TO WATER: <u>9.65</u> T/OC	ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other	COLOR: <u>clear</u>			
DEPTH TO BOTTOM: <u>15.43</u> T/OC +.1	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other	COLOR: <u>tan</u>	FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other	COMMENTS:				

Time	Purge Rate (gal or ml/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity umhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
<u>1800</u>	<u>450</u>	<u>7.50</u>	<u>81</u>	<u>194</u>	<u>1.0</u>	<u>671</u>	<u>15.80</u>	<u>9.65</u>	Initial
<u>1805</u>		<u>7.47</u>	<u>12</u>	<u>190</u>	<u>1.0</u>	<u>712</u>	<u>15.31</u>	<u>9.65</u>	<u>2.25</u>
<u>1810</u>		<u>7.46</u>	<u>8</u>	<u>187</u>	<u>1.0</u>	<u>857</u>	<u>15.14</u>	<u>9.65</u>	<u>4.5</u>
<u>1815</u>		<u>7.47</u>	<u>6</u>	<u>185</u>	<u>0.8</u>	<u>894</u>	<u>15.07</u>	<u>9.65</u>	<u>6.75</u>
<u>1820</u>		<u>7.41</u>	<u>4</u>	<u>185</u>	<u>0.8</u>	<u>915</u>	<u>15.11</u>	<u>9.65</u>	<u>9.0</u>
<u>1825</u>		<u>7.44</u>	<u>2</u>	<u>184</u>	<u>0.8</u>	<u>920</u>	<u>15.15</u>	<u>9.65</u>	<u>11.25</u>

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: <u>0096860</u>	DATE SHIPPED: <u>7/26/05</u>	METHOD: <u>Fed Ex</u>
AIRBILL NUMBER: <u>NA</u>	SIGNED: <u>D. Vennard</u>	DATE: <u>7/26/05</u>



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/27/05</u>	By: <u>EES</u> Date: <u>8/18/05</u>	6527.10

SAMPLE NO.: <u>MW-19-21</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: <u>7:20</u>	DATE: <u>7/27/05</u>	SAMPLE	TIME: _____	DATE: <u>7/27/05</u>
WELL VOLUME: <u>12.9</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: _____	SU _____	TEMP. _____ °C	D.O. _____ mg/L	
TOTAL VOLUME REMOVED: <u>66.0</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. _____ µmhos/cm	Ferr. Fe _____ mg/L	CO ₂ _____		
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: _____ NTU	ORP _____ mV	Alk _____ mg/L		
DEPTH TO WATER: <u>9.89</u> T/OC	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: _____			
DEPTH TO BOTTOM: <u>15.00</u> T/OC +.1	TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>reddish brn</u>	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Very	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS:	COLOR: _____				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS:				

Time	Purge Rate (gal or ml/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
7:20	650	6.89	1000+	214	1.0	2310	15.46	9.89	Initial
7:25		7.13	1000+	215	1.0	2360	14.74	9.85	2.75
7:30		7.24	1000+	209	1.0	2310	14.93	9.92	5.50
7:35		7.24	1000+	208	1.0	2300	15.00	9.92	8.25
7:40		7.24	1000+	208	1.0	2300	15.01	9.94	11.0
7:50		7.25	1000+	207	1.0	2300	15.03	9.95	16.5
7:55		7.24	499	206	1.0	2290	15.07	9.95	19.25
8:00		7.24	392	206	1.0	2280	15.10	9.95	22.0
8:10		7.23	210	207	1.0	2280	14.99	9.95	27.5
8:20	↓	7.23	132	208	1.0	2280	14.99	9.95	33.0

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: NA DATE SHIPPED: 7/27/05 METHOD: Lab courier
AIRBILL NUMBER: 6096859 SIGNED: [Signature] DATE: 7/27/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/27/05</u>	By: <u>EPS</u> Date: <u>8/18/05</u>	6527.10

SAMPLE NO.: <u>MW-19-1 (cont.)</u>	WELL DIAMETER: <input type="checkbox"/> 2" <input checked="" type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: _____	DATE: _____	SAMPLE	TIME: <u>920</u>	DATE: <u>7/27/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters	pH: <u>7.22</u> SU		TEMP: <u>15.23</u> °C		D.O.: <u>1.0</u> mg/L
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters	COND: <u>2260</u> µmhos/cm		Ferr. Fe: <u>1</u> mg/L		CO ₂ : <u>10</u> ppm
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: <u>20</u> NTU		ORP: <u>208</u> mV		Alk: <u>100</u> mg/L
DEPTH TO WATER: T/ <u>NA</u>	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____		COLOR: <u>clr w/ floccs</u>		
DEPTH TO BOTTOM: T/ <u>NA</u>	TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: _____		FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS: _____	COLOR: _____				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS: <u>MS/MSD</u>				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
830	550	7.23	78	208	1.0	2270	15.20	9.55	38.5
840		7.21	57	203	1.0	2260	15.12	9.55	44.0
850		7.21	38	199	1.0	2260	15.14	9.55	49.5
900		7.22	30	200	1.0	2260	15.20	9.55	55.0
910		7.23	26	206	1.0	2270	15.27	9.55	60.5
925		7.24	22	206	1.0	2260	15.24	9.55	63.25
920	↓	7.22	20	208	1.0	2260	15.23	9.55	66.0

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

CHAIN-OF-CUSTODY NUMBER: <u>NAF</u>	DATE SHIPPED: <u>7/27/05</u>	METHOD: <u>Lab courier</u>
AIRBILL NUMBER: <u>0096859</u>	SIGNED: <u>JO Vennor</u>	DATE: <u>7/27/05</u>

WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: <u>7/27/05</u>	By: <u>EBB</u> Date: <u>8/10/05</u>	6527.10

SAMPLE NO.: <u>MW-19-9D</u>	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: <u>822</u>	DATE: <u>7/27/05</u>	SAMPLE	TIME: <u>847</u>	DATE: <u>7/27/05</u>
WELL VOLUME: <u>NA</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: <u>7.35</u> SU	TEMP. <u>16.40</u> °C	D.O. <u>0.0</u> mg/L		
TOTAL VOLUME REMOVED: <u>10</u> <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. <u>552</u> µmhos/cm	Ferr. Fe <u>NA</u> mg/L	CO ₂ <u>NA</u>		
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder <u>Peristaltic</u>	TURBIDITY: <u>2</u> NTU	ORP <u>189</u> mV	Alk <u>NA</u> mg/L		
DEPTH TO WATER: <u>9.50</u> T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>clear</u>			
DEPTH TO BOTTOM: <u>NM</u> T/OC <u>+ .1 (pump)</u>	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other _____	COLOR: <u>clear</u>	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS:				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity (µmhos/cm) (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
822	400	7.48	2	190	0.0	650	15.00	9.50	Initial
827	↓	7.35	2	191	0.0	607	16.29	9.50	2
832	↓	7.34	4	190	0.0	552	17.11	9.51	4
837	↓	7.33	3	189	0.0	553	16.48	9.51	6
842	↓	7.33	2	190	0.0	553	16.35	9.55	8
847	↓	7.35	2	189	0.0	552	16.40	9.55	10

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED				PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅					
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
<u>53</u>	<u>40 mL</u>	<u>Glass</u>	<u>E</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>2</u>	<u>1000 mL</u>	<u>Glass</u>	<u>C</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<u>1</u>	<u>40 mL</u>	<u>Glass</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>2</u>	<u>1000 mL</u>	<u>Amber</u>	<u>F</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<u>1</u>	<u>40 mL</u>	<u>Glass</u>	<u>C</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	<u>2</u>	<u>1000 mL</u>	<u>Plastic</u>	<u>A</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
<u>1</u>	<u>120 mL</u>	<u>Plastic</u>	<u>F</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096859 DATE SHIPPED: 7/27/05 METHOD: lab counter

AIRBILL NUMBER: NA SIGNED: J Overmude DATE: 7/27/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: 7/27/05	By: EES Date: 8/10/05	6527.10

SAMPLE NO.: MW-19	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other _____	

PURGING	TIME: 10 ¹⁵	DATE: 7/27/05	SAMPLE	TIME: 10 ⁴⁵	DATE: 7/27/05	
WELL VOLUME: 4.2 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: 7.03	SU	TEMP. 15.86°C	D.O. 1.0	mg/L	
TOTAL VOLUME REMOVED: 10.5 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. 1920	µmhos/cm	Ferr. Fe 710	mg/L	CO ₂ 60	ppm
METHOD: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: 9	NTU	ORP 183	mV	Alk 110	mg/L
DEPTH TO WATER: 9.91 T/O	ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other _____	COLOR: clear				
DEPTH TO BOTTOM: 16.56 T/O + 0.1	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very					
ODOR: <input type="checkbox"/> None <input checked="" type="checkbox"/> Other _____	COLOR: clear w/ float.	FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Very	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other _____					
COMMENTS: Sheen on top of water	COLOR: _____					
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other _____	COMMENTS: _____					

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity µmhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
10 ¹⁵	360	6.94	37	194	1.0	2240	16.03	9.91	Initial
10 ²⁵	↓	7.00	20	190	1.0	2000	15.89	9.91	3.5
10 ³⁵	↓	7.03	11	183	1.0	1930	15.75	9.92	7.0
10 ⁴⁰	↓	7.04	10	184	1.0	1920	15.76	9.92	8.75
10 ⁴⁵	↓	7.03	9	185	1.0	1920	15.86	9.97	10.5

Stabilization complete when 3 successive readings w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5°C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

CHAIN-OF-CUSTODY NUMBER: 0096856 DATE SHIPPED: 7/27/05 METHOD: Fed Ex
AIRBILL NUMBER: NA SIGNED: J. Greenoode DATE: 7/27/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: 7/27/05	By: Date:	6527.10

SAMPLE NO.: MW-19-7 Upper	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other _____
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other _____	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other	

PURGING	TIME: 12 ⁰⁵	DATE: 7/27/05	SAMPLE	TIME: 12 ²⁵	DATE: 7/27/05
WELL VOLUME: 6.9 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: 7.02 SU	TEMP. 16.02 °C	D.O. 1.0	ma/L	
TOTAL VOLUME REMOVED: 6.0 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND. 2460 μ mhos/cm	Ferr. Fe 710 mg/L	CO ₂ 35 ppm		
METHOD: <input type="checkbox"/> Bailer <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: 5 NTU	ORP 185 mV	Alk 70 mg/L		
DEPTH TO WATER: 9.15 T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	COLOR: clear			
DEPTH TO BOTTOM: 20.20 T/OC +0.1	TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	COLOR: clear	FILTRATE (0.45 μ m) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other	COMMENTS:				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity μ mhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
12 ⁰⁵	300	7.05	18	200	1.0	2180	17.25	9.15	Initial
12 ¹⁰		6.90	10	199	1.0	2220	16.53	9.15	1.5
12 ¹⁵		6.97	8	190	1.0	2440	16.40	9.15	3.0
12 ²⁰		6.99	7	189	1.0	2440	16.23	9.18	4.5
12 ²⁵		7.02	5	185	1.0	2460	16.02	9.18	6.0

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₅						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096856 DATE SHIPPED: 7/27/05 METHOD: Fed Ex
AIRBILL NUMBER: MA SIGNED: J Overmorde DATE: 7/27/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/27/05	By: EES	Date: 8/1/05	6527.10

SAMPLE NO.: MW-19-8 WELL DIAMETER: ☒ 2" ☐ 4" ☐ Other _____

WELL MATERIAL: ☐ PVC ☒ SS ☐ Iron ☐ Other _____

SAMPLE TYPE: ☒ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☐ Other _____

PURGING		TIME: 13 ³³	DATE: 7/27/05	SAMPLE		TIME: 13 ⁵³	DATE: 7/27/05
WELL VOLUME: 6.2 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters				pH: 7.07 SU		TEMP: 18.94 °C	
TOTAL VOLUME REMOVED: 10 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters				COND: 1820 µmhos/cm		D.O. 0.0 mg/L	
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				Ferr. Fe 3 mg/L		CO ₂ 19 ppm	
DEPTH TO WATER: 9.51 T/OC				TURBIDITY: 2 NTU		ORP 147 mV	
DEPTH TO BOTTOM: 19.52 T/OC + 0.1				Alk 80 mg/L		COLOR: clear	
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other				TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv		FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
COLOR: clear				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other			
TURBIDITY: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				COLOR:			
COMMENTS:				COMMENTS:			
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other							

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096856 DATE SHIPPED: 7/27/05 METHOD: Fed Ex
AIRBILL NUMBER: MA SIGNED: J Overmoore DATE: 7/27/05



WATER SAMPLE LOG

PROJECT NAME	PREPARED	CHECKED	PROJECT NO.
L.E. Carpenter - Wharton, NJ	By: JO Date: 7/27/05	By: EES Date: 8/18/05	6527.10

SAMPLE NO.: MW-19-7 Lower	WELL DIAMETER: <input checked="" type="checkbox"/> 2" <input type="checkbox"/> 4" <input type="checkbox"/> Other
WELL MATERIAL: <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/> Iron <input type="checkbox"/> Other	
SAMPLE TYPE: <input checked="" type="checkbox"/> GW <input type="checkbox"/> WW <input type="checkbox"/> SW <input type="checkbox"/> DW <input type="checkbox"/> Leachate <input type="checkbox"/> Other	

PURGING	TIME: 1430	DATE: 7/27/05	SAMPLE	TIME: 1450	DATE: 7/27/05
WELL VOLUME: 6.9 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	pH: 7.03	SU	TEMP: 14.76C	D.O. 0.8	mg/L
TOTAL VOLUME REMOVED: 10 <input type="checkbox"/> Gallons <input checked="" type="checkbox"/> Liters	COND: 2670	umhos/cm	Ferr. Fe 710	mg/L	CO ₂ 40
METHOD: <input type="checkbox"/> Bailor <input checked="" type="checkbox"/> Pump, Bladder	TURBIDITY: 17	NTU	ORP 90	mV	Alk 95
DEPTH TO WATER: 9.20 T/OC	ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other		COLOR: clr		
DEPTH TO BOTTOM: 20.20 T/OC + 0.1	TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				
ODOR: <input checked="" type="checkbox"/> None <input type="checkbox"/> Other	COLOR: tan		FILTRATE (0.45 um) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
TURBIDITY: <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				
COMMENTS:	COLOR:				
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other	COMMENTS:				

Time	Purge Rate (gal or mL/min)	pH (SU)	Turbidity (NTU)	ORP (mV)	Dissolved Oxygen (mg/L)	Conductivity umhos/cm (Corrected)	Temperature (°C)	Water Level (0.01 ft)	Cumulative Purge Volume (L)
1430	500	7.10	51	130	1.0	2680	15.11	9.20	Initial
1435		7.03	39	101	0.8	2670	14.99	9.17	2.5
1440		7.03	19	97	0.8	2670	14.82	9.17	5.0
1445		7.05	17	94	0.8	2680	14.79	9.17	7.5
1450	↓	7.03	17	90	0.8	2670	14.76	9.17	10.0

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃						
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N					

CHAIN-OF-CUSTODY NUMBER: 0096856 DATE SHIPPED: 7/27/05 METHOD: Fed Ex
AIRBILL NUMBER: NA SIGNED: J Overmoe DATE: 7/27/05

WATER SAMPLE LOG

PROJECT NAME	PREPARED		CHECKED		PROJECT NO.
L.E. Carpenter – Wharton, NJ	By: JO	Date: 7/27/05	By: PES	Date: 8/18/05	6527.10

SAMPLE NO.: RB-01 WELL DIAMETER: ☐ 2" ☐ 4" ☒ Other _____

WELL MATERIAL: ☐ PVC ☐ SS ☐ Iron ☒ Other _____

SAMPLE TYPE: ☐ GW ☐ WW ☐ SW ☐ DW ☐ Leachate ☒ Other _____

PURGING		TIME: _____	DATE: _____	SAMPLE		TIME: <u>1645</u>	DATE: <u>7/27/05</u>
WELL VOLUME: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				pH: _____		TEMP. _____ °C	
TOTAL VOLUME REMOVED: <input type="checkbox"/> Gallons <input type="checkbox"/> Liters				COND. _____ µmhos/cm		D.O. _____ mg/L	
METHOD: <input type="checkbox"/> Bailer, <input checked="" type="checkbox"/> Pump, Bladder				Ferr. Fe _____ mg/L		CO ₂ _____	
DEPTH TO WATER: T/ <u>NA</u>				TURBIDITY: _____ NTU		ORP <u>NA</u> mV	
DEPTH TO BOTTOM: T/ <u>NA</u>				ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other		Alk _____ mg/L	
ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other				COLOR: _____		TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv	
TURBIDITY: <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Verv				FILTRATE (0.45 µm) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		ODOR: <input type="checkbox"/> None <input type="checkbox"/> Other	
COMMENTS: _____				COLOR: _____		COMMENTS: _____	
DISPOSAL METHOD: <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Drum <input type="checkbox"/> Other							

[illegible]

Stabilization complete when **3 successive readings** w/in the following limits: pH +/- 0.1 SU; Cond +/- 20 (TC); Temp +/- 5° C
In addition, Turbidity <10 NTU or 3 successive readings +/- 10%

BOTTLES FILLED			PRESERVATIVE CODES: A - None B - HNO ₃ C - H ₂ SO ₄ D - NaOH E - HCl F - Na ₂ S ₂ O ₃							
Number	Size	Type	Preservative	Filtered	Number	Size	Type	Preservative	Filtered	
5	40 mL	Glass	E	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Amber	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	40 mL	Glass	C	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	2	1000 mL	Plastic	A	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N	
1	120 mL	Plastic	F	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N						

CHAIN-OF-CUSTODY NUMBER: 0096865 DATE SHIPPED: 7/27/05 METHOD: Fed Ex
AIRBILL NUMBER: NA SIGNED: J Overmoe DATE: 7/27/05

Please print. Instructions on reverse side correspond with circled numbers.

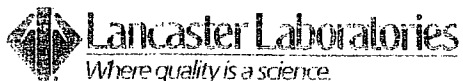
1 Client: <u>RMT, Inc.</u> Acct. #: _____ Project Name/ID: <u>LE Carpenter / 6527.10</u> PWSID #: _____ Project Manager: <u>Nick Clavett</u> P.O. #: _____ Sampler: <u>J. Overcarde</u> Quote #: _____ Name of state where samples were collected: <u>NJ</u>				4 Matrix <input type="checkbox"/> Potable <input type="checkbox"/> Check if Applicable <input type="checkbox"/> NPDES		5 Analyses Requested <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> BTEX EPA 625 (DEHP) NH3, TP SO4, TSS, TDS CPC NO2 NO3 Zn, Pb, Cu </div> <div style="text-align: right;"> For Lab Use Only FSC: _____ SCR #: <u>120562</u> </div> </div>										6 Temperature of samples upon receipt (if requested)			
2 Sample Identification				3 Grab Composite		Soil Water Other		Total # of Containers		Remarks									
Date Collected Time Collected																			
SW-R-1				7/25/05 1723		X		5		X X									
SW-R-2				1730		X		5		X									
SW-R-5				1510		X		5											
SW-R-3				1740		X		5											
SW-R-4				1755		X		5											
SW-D-2				7/26/05 710															
SW-D-3				730															
SW-D-1				715															

7 Turnaround Time Requested (TAT) (please circle): Normal Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____				Relinquished by: <u>[Signature]</u> Date: <u>7/26/05</u> Time: <u>11:15</u>		Received by: <u>J. Overcarde</u> Date: <u>7/25/05</u> Time: <u>12:50</u>	
				Relinquished by: <u>J. Overcarde</u> Date: <u>7/26/05</u> Time: <u>10:57</u>		Received by: <u>Jay Charles</u> Date: <u>7/26/05</u> Time: <u>10:57</u>	
				Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	
				Relinquished by: _____ Date: _____ Time: _____		Received by: _____ Date: _____ Time: _____	

8 Data Package Options (please circle if required) QC Summary Type VI (Raw Data) Type I (Tier I) GLP Type II (Tier II) Other Type III (NJ Red. Del.) Type IV (CLP)				SDG Complete? Yes No Site-specific QC required? Yes No Internal Chain of Custody required? Yes No			
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Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>NMT, Inc.</u> Acct. #: _____ Project Name/##: <u>LE Carpenter / 6527.10</u> PWSID #: _____ Project Manager: <u>Nick Cloutt</u> P.O. #: _____ Sampler: <u>J Overwilde</u> Quote #: _____ Name of state where samples were collected: <u>NJ</u>				4 Matrix <input type="checkbox"/> Potable <input type="checkbox"/> Check if NPDES Applicable <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other Total # of Containers: _____		5 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="8">Analyses Requested</th> </tr> <tr> <td>BTEX</td> <td>EPA 625 (DEHP)</td> <td>NH₃, TP</td> <td>SO₄, TSS, TD₅</td> <td>GPC</td> <td>NO₂</td> <td>NO₃</td> <td>8015B</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>								Analyses Requested								BTEX	EPA 625 (DEHP)	NH ₃ , TP	SO ₄ , TSS, TD ₅	GPC	NO ₂	NO ₃	8015B																																																																									6 For Lab Use Only FSC: _____ SCR #: _____ Temperature of samples upon receipt (if requested): _____																													
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MW-19-10	↓	12 ²⁸						X																																																																																																																											
MW-19-6	↓	15 ⁰²						X																																																																																																																											
Atm-01	↓	15 ¹⁵						X																																																																																																																											
Dup-01								X																																																																																																																											
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MW-19-5	↓	18 ²⁵						X																																																																																																																											
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Acct. # _____ Group# _____ Sample # _____

COC # 0096859

Please print. Instructions on reverse side correspond with circled numbers.

[illegible]

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: <u>RMT, Inc.</u> Acct. #: _____ Project Name/#: <u>LE Carpenter / 6527.10</u> PWSID #: _____ Project Manager: <u>Nick Cleve</u> P.O. #: _____ Sampler: <u>J. Overmude</u> Quote #: _____ Name of state where samples were collected: <u>NS</u>		4 Matrix <input type="checkbox"/> Potable <input type="checkbox"/> Check if NPDES Applicable		5 Analyses Requested <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> 6 Temperature of samples upon receipt (if requested) </div> <div> BTEX EPA 625 (DEHP) NH₃, TP SO₄, TSS, TDS SPC NO₃ NO₂ & 15B </div> </div>										For Lab Use Only FSC: _____ SCR #: _____				
2 Sample Identification		Date Collected	Time Collected	3 Grab Composite	Soil	Water	Other	Total # of Containers	Remarks									
MW-19		1/27/05	10 ¹⁵	X		X		4	X									
MW-19-7 Lower		↓	14 ⁵⁰					4	X									
MW-19-7 Upper			12 ²⁵					4	X									
MW-19-8			13 ⁵³					4	X									
RB-01			16 ⁴⁵					4	X									
trip blank								1	X									

7 Turnaround Time Requested (TAT) (please circle): Normal Rush (Rush TAT is subject to Lancaster Laboratories approval and surcharge.) Date results are needed: _____ Rush results requested by (please circle): Phone Fax E-mail Phone #: _____ Fax #: _____ E-mail address: _____				Relinquished by: <u>J. Overmude</u> Date: <u>1/27</u> Time: <u>1730</u>				Received by: <u>Fed Ex</u> Date: <u>1/27/05</u> Time: _____				9	
				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____					
				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____					
				Relinquished by: _____ Date: _____ Time: _____				Received by: _____ Date: _____ Time: _____					

8 Data Package Options (please circle if required) QC Summary Type VI (Raw Data) Type I (Tier I) GLP Type II (Tier II) Other Type III (NJ Red. Del.) Type IV (CLP)		SDG Complete? Yes No Site-specific QC required? Yes No (If yes, indicate QC sample and submit triplicate volume.) Internal Chain of Custody required? Yes No	
--	--	--	--

Appendix D
3rd Quarter 2005
Laboratory Analytical Report



2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952747. Samples arrived at the laboratory on Tuesday, July 26, 2005.

Client Description

Trip_Blank Water Sample

Lancaster Labs Number

4570663

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Nicholas J. Clevett



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Dana M. Kauffman".

Dana M. Kauffman
Manager



Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. WW 4570663

Trip_Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

LECTB SDG#: LEC48-09TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 17:03	K. Robert Caulfeild-James	1

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952747

Reported: 07/29/05 at 08:36 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05209A36A	Sample number(s): 4570663							
Total Xylenes	N.D.	0.6	ug/l	109	110	82-120	1	30
Benzene	N.D.	0.2	ug/l	107	108	86-119	1	30
Toluene	N.D.	0.2	ug/l	114	114	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	108	109	81-119	1	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05209A36A	Sample number(s): 4570663								
Total Xylenes	110		78-130						
Benzene	108		78-131						
Toluene	111		78-129						
Ethylbenzene	111		75-133						

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)

Batch number: 05209A36A

Trifluorotoluene-P

4570663	101
Blank	100
LCS	101
LCSD	100
MS	101
Limits:	69-137

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request, Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group # 952747 Sample # 45706603

COC # 0096862

Please print. Instructions on reverse side correspond with circled numbers.

Cooler temp 3.0-4.2°C

1 Client: RMT, Inc. Acct. #: _____
 Project Name#: LECarpenter/6527.10 PWSID #: _____
 Project Manager: Nick Cleve P.O. #: _____
 Sampler: J. Overvoorde Quote #: _____
 Name of state where samples were collected: NJ

4 5

For Lab Use Only
 FSC: _____
 SCR #: 1205679

6

BTEX
 EPA 625 (DEHP)
 NH₃, TP
 SO₄, TSS, TDS
 SPC
 NO₃
 NO₂
 DO15B

																		Remarks
SW-R-1	7/25/05	1723	X			X	5	X	X									
SW-R-2		1730	X			X	5		X									
SW-R-5		1510	X			X	5											
SW-R-3		1740	X			X	5											
SW-R-4		1755	X			X	5											
SW-D-2	7/26/05	730																
SW-D-3		730																
SW-D-1		715																
MW-19-11		1006					14	X	X	X	X	X	X	X	X	X	X	

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
 Date results are needed: _____
 Rush results requested by (please circle): Phone Fax E-mail
 Phone #: _____ Fax #: _____
 E-mail address: _____

Relinquished by: <u>[Signature]</u>	Date: <u>7/24/05</u>	Time: <u>12:30</u>	Received by: <u>J. Overvoorde</u>	Date: <u>7/25/05</u>	Time: <u>12:30</u>
Relinquished by: <u>J. Overvoorde</u>	Date: <u>7/26/05</u>	Time: <u>10:57</u>	Received by: <u>Jay Charles</u>	Date: <u>7/26/05</u>	Time: <u>10:57</u>
Relinquished by: <u>Jay Charles</u>	Date: <u>7/26/05</u>	Time: <u>1340</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: <u>[Signature]</u>	Date: <u>7/26/05</u>	Time: <u>1340</u>

8 Data Package Options (please circle if required)

QC Summary	Type VI (Raw Data)	SDG Complete?
Type I (Tier I)	GLP	Yes No
Type II (Tier II)	Other	Yes No
Type III (NJ Red. Del.)	(If yes, indicate QC sample and submit triplicate volume.)	
Type IV (CLP)	Internal Chain of Custody required? Yes No	

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 953074. Samples arrived at the laboratory on Thursday, July 28, 2005. The PO# for this group is 6527.10.

Client Description

MW-19 Grab Water Sample
MW-19-7 Lower Grab Water Sample
MW-19-7 Upper Grab Water Sample
MW-19-8 Grab Water Sample
RB-01 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

4572227
4572228
4572229
4572230
4572231
4572232

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Nicholas J. Clevett



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Earl R Custer

Earl R. Custer
Group Leader



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4572227

MW-19 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 10:45 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:53
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CAR19 SDG#: LEC50-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	3.	1.	cfu/ml	n.a.
This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
Sample was greater than 24 hours old when analyzed.						
The sample was plated by Marlaina Kohler on 7-28-05 by 1210.						
00206	Total Suspended Solids	n.a.	67.2	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,070.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	1.3	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	6.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	33.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	1.1 J	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	6,000.	120.	ug/l	200
07029	Benzene	71-43-2	N.D.	40.	ug/l	200
07030	Toluene	108-88-3	44,000.	40.	ug/l	200
07031	Ethylbenzene	100-41-4	1,100.	40.	ug/l	200
Due to dilution of the sample made necessary by the high level of toluene, normal reporting limits were not attained.						
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	2. J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 4572227

MW-19 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 10:45 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:53
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CAR19 SDG#: LEC50-01

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/30/2005 14:35	Marlaina E Kohler	n.a.
00206	Total Suspended Solids	EPA 160.2	1	08/02/2005 12:07	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/28/2005 23:31	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 12:17	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/29/2005 13:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:12	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/02/2005 11:59	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/08/2005 20:46	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	08/02/2005 04:32	K. Robert Caulfeild-James	200
00553	Base Neutrals	EPA 625	1	08/01/2005 15:59	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/31/2005 12:45	Kerrie A Greenfield	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4572228

MW-19-7 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 14:50 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA197 SDG#: LEC50-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	17.	1.	cfu/ml	n.a.
This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
The sample was plated by Marlaina Kohler on 7-28-05 by 1210.						
00206	Total Suspended Solids	n.a.	45.6	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,450.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.30	0.080	mg/l	1
00228	Sulfate	14808-79-8	19.2	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	2,900.	200.	ug/l	100
07107	Ethane	74-84-0	3.0 J	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	1.7 J	0.6	ug/l	1
07029	Benzene	71-43-2	2.2	0.2	ug/l	1
07030	Toluene	108-88-3	0.2 J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
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Analysis Report

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Page 2 of 2

Lancaster Laboratories Sample No. WW 4572228

MW-19-7 Lower Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 14:50 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA197	SDG#: LEC50-02						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/30/2005 14:35	Marlaina E Kohler	n.a.	
00206	Total Suspended Solids	EPA 160.2	1	08/02/2005 12:07	Susan E Hibner	1	
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1	
00219	Nitrite Nitrogen	EPA 353.2	1	07/28/2005 23:32	Venia B McPadden	1	
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 12:18	Nicole M Kepley	1	
00221	Ammonia Nitrogen	EPA 350.2	1	07/29/2005 13:00	Luz M Groff	1	
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:13	Nicole M Kepley	1	
00228	Sulfate	EPA 300.0	1	08/02/2005 12:40	Shannon L Phillips	5	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/08/2005 21:01	Robert I Pusch	1	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/09/2005 18:33	Robert I Pusch	100	
08238	BTEX (EPA 602)	EPA 602	1	08/01/2005 16:44	K. Robert Caulfeild-James	1	
00553	Base Neutrals	EPA 625	1	08/01/2005 16:49	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	07/31/2005 12:45	Kerrie A Greenfield	1	
08263	Total Phos as P, Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1	



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4572229

MW-19-7 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 12:25 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CU197 SDG#: LEC50-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	17.	1.	cfu/ml	n.a.
This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
The sample was plated by Marlaina Kohler on 7-28-05 by 1210.						
00206	Total Suspended Solids	n.a.	31.6	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,280.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.22	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.29 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.10	0.080	mg/l	1
00228	Sulfate	14808-79-8	25.7	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	1,600.	40.	ug/l	20
07107	Ethane	74-84-0	1.4 J	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	2.4 J	0.6	ug/l	1
07029	Benzene	71-43-2	1.5	0.2	ug/l	1
07030	Toluene	108-88-3	0.5 J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Analysis Report

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Lancaster Laboratories Sample No. WW 4572229

MW-19-7 Upper Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 12:25 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CU197	SDG#: LEC50-03						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/30/2005 14:35	Marlaina E Kohler	n.a.	
00206	Total Suspended Solids	EPA 160.2	1	08/02/2005 12:07	Susan E Hibner	1	
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1	
00219	Nitrite Nitrogen	EPA 353.2	1	07/28/2005 23:34	Venia B McFadden	1	
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 12:19	Nicole M Kepley	1	
00221	Ammonia Nitrogen	EPA 350.2	1	07/29/2005 13:00	Luz M Groff	1	
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:14	Nicole M Kepley	1	
00228	Sulfate	EPA 300.0	1	08/02/2005 12:54	Shannon L Phillips	5	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/08/2005 21:17	Robert I Pusch	1	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/09/2005 18:48	Robert I Pusch	20	
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 15:59	Linda C Pape	1	
00553	Base Neutrals	EPA 625	1	08/01/2005 17:40	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	07/31/2005 12:45	Kerrie A Greenfield	1	
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1	



Analysis Report

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Lancaster Laboratories Sample No. WW 4572230

MW-19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 13:53 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA198 SDG#: LEC50-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	N.D.	1.	cfu/ml	n.a.
This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.						
The sample was plated by Marlaina Kohler on 7-28-05 by 1210.						
00206	Total Suspended Solids	n.a.	8.8 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	876.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	0.33	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.26 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	20.3	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	74.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
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Analysis Report

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Lancaster Laboratories Sample No. WW 4572230

MW-19-8 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 13:53 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:54
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA198	SDG#: LEC50-04						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/30/2005 14:35	Marlaina E Kohler	n.a.	
00206	Total Suspended Solids	EPA 160.2	1	08/02/2005 12:07	Susan E Hibner	1	
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1	
00219	Nitrite Nitrogen	EPA 353.2	1	07/28/2005 23:35	Venia B McPadden	1	
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 12:52	Nicole M Kepley	1	
00221	Ammonia Nitrogen	EPA 350.2	1	07/29/2005 13:00	Luz M Groff	1	
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:18	Nicole M Kepley	1	
00228	Sulfate	EPA 300.0	1	08/02/2005 13:08	Shannon L Phillips	5	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/08/2005 21:33	Robert I Pusch	1	
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 16:35	Linda C Pape	1	
00553	Base Neutrals	EPA 625	1	08/01/2005 18:30	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	07/31/2005 12:45	Kerrie A Greenfield	1	
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 16:30	Nancy J Shoop	1	



Analysis Report

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Lancaster Laboratories Sample No. WW 4572231

RB-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 16:45 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:55
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA1RB SDG#: LEC50-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution. The sample was plated by Marlaina Kohler on 7-28-05 by 1210.	n.a.	N.D.	1.	cfu/ml	n.a.
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	0.30	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
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Lancaster Laboratories Sample No. WW 4572231

RB-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 16:45 by JO

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:55
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA1RB	SDG#: LEC50-05RB						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/30/2005 14:35	Marlaina E Kohler	n.a.	
00206	Total Suspended Solids	EPA 160.2	1	08/02/2005 12:07	Susan E Hibner	1	
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1	
00219	Nitrite Nitrogen	EPA 353.2	1	07/28/2005 23:36	Venia B McFadden	1	
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 12:53	Nicole M Kepley	1	
00221	Ammonia Nitrogen	EPA 350.2	1	07/29/2005 13:00	Luz M Groff	1	
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:19	Nicole M Kepley	1	
00228	Sulfate	EPA 300.0	1	08/02/2005 11:46	Shannon L Phillips	1	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/08/2005 21:48	Robert I Pusch	1	
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 15:24	Linda C Pape	1	
00553	Base Neutrals	EPA 625	1	08/01/2005 19:21	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	07/31/2005 12:45	Kerrie A Greenfield	1	
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 16:30	Nancy J Shoop	1	



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Lancaster Laboratories Sample No. WW 4572232

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 07/28/2005 09:05
Reported: 08/10/2005 at 11:55
Discard: 09/10/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

CA1TB SDG#: LEC50-06TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 14:48	Linda C Pape	1

Quality Control Summary

Client Name: RMT, Inc.
Reported: 08/10/05 at 11:55 AM

Group Number: 953074

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 05209105103B Nitrite Nitrogen	Sample number(s): 4572227-4572231 N.D.	0.015	mg/l	97		90-110		
Batch number: 05210022101A Ammonia Nitrogen	Sample number(s): 4572227-4572229, 4572231 N.D.	0.11	mg/l	98	97	91-100	1	1
Batch number: 05210109101B Total Phosphorus as P (water)	Sample number(s): 4572227-4572229 N.D.	0.080	mg/l	97		89-110		
Batch number: 05210109102A Total Phosphorus as P (water)	Sample number(s): 4572230-4572231 N.D.	0.080	mg/l	101		89-110		
Batch number: 05210A36A Total Xylenes	Sample number(s): 4572229-4572232 N.D.	0.6	ug/l	111	110	82-120	1	30
Benzene	N.D.	0.2	ug/l	107	106	86-119	1	30
Toluene	N.D.	0.2	ug/l	112	111	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	110	109	81-119	1	30
Batch number: 05211WAA625 bis(2-Ethylhexyl)phthalate	Sample number(s): 4572227-4572231 N.D.	1.	ug/l	87	87	68-111	0	30
Batch number: 05213021201A Total Dissolved Solids	Sample number(s): 4572227-4572231 N.D.	9.7	mg/l	99		80-120		
Batch number: 05213A36A Total Xylenes	Sample number(s): 4572227-4572228 N.D.	0.6	ug/l	107	107	82-120	0	30
Benzene	N.D.	0.2	ug/l	103	103	86-119	0	30
Toluene	N.D.	0.2	ug/l	110	110	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	106	106	81-119	0	30
Batch number: 05214020601B Total Suspended Solids	Sample number(s): 4572227-4572231 N.D.	3.0	mg/l	103		56-128		
Batch number: 05214401301A Sulfate	Sample number(s): 4572227-4572231 N.D.	0.30	mg/l	98		90-110		
Batch number: 05215106104B Nitrate Nitrogen	Sample number(s): 4572227-4572231 N.D.	0.040	mg/l	102		89-110		
Batch number: 052200023A Methane	Sample number(s): 4572227-4572231 N.D.	2.0	ug/l	100		80-120		
Ethane	N.D.	1.0	ug/l	102		80-120		
Ethene	N.D.	1.0	ug/l	105		80-120		
Propane	N.D.	1.0	ug/l	95		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 953074

Reported: 08/10/05 at 11:55 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05209105103B Nitrite Nitrogen	Sample number(s): 4572227-4572231 99	90-110				N.D.	N.D.	0 (1)	20
Batch number: 05210022101A Ammonia Nitrogen	Sample number(s): 4572227-4572229, 4572231 7.0					7.1		1	2
Batch number: 05210109101B Total Phosphorus as P (water)	Sample number(s): 4572227-4572229 105	90-110				N.D.	N.D.	0 (1)	3
Batch number: 05210109102A Total Phosphorus as P (water)	Sample number(s): 4572230-4572231 110	90-110				0.33	0.30	11* (1)	3
Batch number: 05210A36A Total Xylenes	Sample number(s): 4572229-4572232 114	112	78-130	2	30				
Benzene	112	111	78-131	2	30				
Toluene	116	113	78-129	2	30				
Ethylbenzene	114	113	75-133	2	30				
Batch number: 05213021201A Total Dissolved Solids	Sample number(s): 4572227-4572231 100	101	60-140	0	5	1,140.	1,120.	2	5
Batch number: 05213A36A Total Xylenes	Sample number(s): 4572227-4572228 111		78-130						
Benzene	111		78-131						
Toluene	114		78-129						
Ethylbenzene	112		75-133						
Batch number: 05214020601B Total Suspended Solids	Sample number(s): 4572227-4572231 96					67.2	68.8	2	20
Batch number: 05214401301A Sulfate	Sample number(s): 4572227-4572231 96	90-110				10.1	9.4	7* (1)	3
Batch number: 05215106104B Nitrate Nitrogen	Sample number(s): 4572227-4572231 108	90-110				N.D.	N.D.	0 (1)	2
Batch number: 052200023A Methane	Sample number(s): 4572227-4572231 95	98	63-120	3	20				
Ethane	98	102	69-118	3	20				
Ethene	105	108	67-125	3	20				
Propane	98	100	54-127	2	20				

Surrogate Quality Control

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.
Reported: 08/10/05 at 11:55 AM

Group Number: 953074

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 05210A36A
Trifluorotoluene-P

4572229	97
4572230	101
4572231	100
4572232	100
Blank	100
LCS	99
LCSD	99
MS	99
MSD	100

Limits: 69-137

Analysis Name: Base Neutrals
Batch number: 05211WAA625
Nitrobenzene-d5

4572227	84
4572228	88
4572229	92
4572230	91
4572231	89
Blank	91
LCS	92
LCSD	90

2-Fluorobiphenyl

86
84
86
85
86
82
84
84

Terphenyl-d14

77
78
74
71
56
104
127
125

Limits: 48-117

62-111

45-132

Analysis Name: BTEX (EPA 602)
Batch number: 05213A36A
Trifluorotoluene-P

4572227	99
4572228	97
Blank	101
LCS	99
LCSD	99
MS	100

Limits: 69-137

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 052200023A
Propene

4572227	99
4572228	97
4572229	97
4572230	102
4572231	103
Blank	111
LCS	108
MS	100
MSD	95

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 953074

Reported: 08/10/05 at 11:55 AM

Surrogate Quality Control

Limits: 64-126

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request, Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 9322 Group# 953074 Sample # 4572227-32

COC # 0096856

Please print. Instructions on reverse side correspond with circled numbers.

<p>1 Client: <u>RMT, Inc.</u> Acct. #: _____</p> <p>Project Name/#: <u>LE Carpenter/6522.10</u> PWSID #: _____</p> <p>Project Manager: <u>Nick Cleve</u> P.O.#: _____</p> <p>Sampler: <u>J Overmorde</u> Quote #: _____</p> <p>Name of state where samples were collected: <u>NJ</u></p>		<p>4</p>		<p>5</p>		<p>6</p>		<p>For Lab Use Only</p> <p>FSC: _____</p> <p>SCR #: _____</p> <p>4.6°C 4.5°C 3.2°C 4.9°C 4.3°C</p> <p>3/2/05</p>	
		<p>3</p>		<p>8</p>					
		<p>2</p>		<p>7</p>					
		<p>1</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
		<p>5</p>		<p>4</p>					
		<p>3</p>		<p>2</p>					
		<p>1</p>		<p>0</p>					
		<p>9</p>		<p>8</p>					
		<p>7</p>		<p>6</p>					
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952954. Samples arrived at the laboratory on Wednesday, July 27, 2005. The PO# for this group is 6527.10.

Client Description

MW-19-9D Grab Water Sample
MW-19-1 Unspiked Grab Water Sample
MW-19-1 Matrix Spike Grab Water Sample
MW-19-1 Matrix Spike Dup Grab Water Sample
MW-19-1 Duplicate Grab Water Sample
Trip_Blank Water Sample

Lancaster Labs Number

4571544
4571545
4571546
4571547
4571548
4571549

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Nicholas J. Clevett



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele J. Smith".

Michele J. Smith
Group Leader



Analysis Report

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Lancaster Laboratories Sample No. WW 4571544

MW-19-9D Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 08:47 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:06
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-9D SDG#: LEC49-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 10:33	Linda C Pape	1
00553	Base Neutrals	EPA 625	1	07/30/2005 21:01	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1

Lancaster Laboratories Sample No. WW 4571545

MW-19-1 Unspiked Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 09:20 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:06
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19--1 SDG#: LEC49-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	53.	1.	cfu/ml	n.a.
The sample was plated by Jeff Groff on 7-27-05 by 2020.						
00200	pH	n.a.	7.2	0.010	Std. Units	1
The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.						
00206	Total Suspended Solids	n.a.	9.2 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,140.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	4.1	0.080	mg/l	2
Matrix QC was performed on this sample for the nitrate analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.						
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	39.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
Matrix QC was performed on this sample. Please see the attached QC summary report for compounds showing a matrix bias.						
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1. J	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571545

MW-19-1 Unspiked Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 09:20 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:06
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19--1 SDG#: LEC49-02BKG

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 20:55	Jeffrey B Groff	n.a.
00200	pH	EPA 150.1	1	07/28/2005 16:00	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	08/01/2005 15:32	Anne L Kuenzli	1
00212	Total Dissolved Solids	EPA 160.1	1	08/01/2005 09:45	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:09	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 09:08	Nicole M Kepley	2
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 11:04	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 15:03	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/05/2005 17:19	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 11:08	Linda C Pape	1
00553	Base Neutrals	EPA 625	1	07/30/2005 12:36	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571546

MW-19-1 Matrix Spike Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 09:20 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:07
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19--1 SDG#: LEC49-02MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
00219	Nitrite Nitrogen	14797-65-0	0.21	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	9.3	0.20	mg/l	5
00221	Ammonia Nitrogen	7664-41-7	13.7	0.11	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	59.	2.0	ug/l	1
07107	Ethane	74-84-0	62.	1.0	ug/l	1
07108	Ethene	74-85-1	63.	1.0	ug/l	1
07109	Propane	74-98-6	63.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	68.	0.6	ug/l	1
07029	Benzene	71-43-2	22.	0.2	ug/l	1
07030	Toluene	108-88-3	23.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	23.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	95.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:11	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 09:10	Nicole M Kepley	5
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/05/2005 17:36	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 11:44	Linda C Pape	1
00553	Base Neutrals	EPA 625	1	07/30/2005 13:27	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571547

MW-19-1 Matrix Spike Dup Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 09:20 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40

RMT, Inc.

Reported: 08/09/2005 at 15:07

PO Box 8923

Discard: 09/09/2005

Madison WI 53708-8923

19--1 SDG#: LEC49-02MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	Units	Dilution Factor
				Detection Limit		
00221	Ammonia Nitrogen	7664-41-7	13.5	0.11	mg/l	1
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	58.	2.0	ug/l	1
07107	Ethane	74-84-0	61.	1.0	ug/l	1
07108	Ethene	74-85-1	63.	1.0	ug/l	1
07109	Propane	74-98-6	89.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	67.	0.6	ug/l	1
07029	Benzene	71-43-2	22.	0.2	ug/l	1
07030	Toluene	108-88-3	23.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	23.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	93.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/05/2005 17:53	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 12:19	Linda C Pape	1
00553	Base Neutrals	EPA 625	1	07/30/2005 14:17	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571548

MW-19-1 Duplicate Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/27/2005 09:20 by JO

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:07
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19--1 SDG#: LEC49-02DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	4.7	0.080	mg/l	2
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:12	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 09:09	Nicole M Kepley	2
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1



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Lancaster Laboratories Sample No. WW 4571549

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 07/27/2005 15:40
Reported: 08/09/2005 at 15:07
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

19-TB SDG#: LEC49-03TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/29/2005 08:11	Linda C Pape	1

Quality Control Summary

Client Name: RMT, Inc.
Reported: 08/09/05 at 03:08 PM

Group Number: 952954

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05208105104A Nitrite Nitrogen	N.D.	0.015	mg/l	100		90-110		
Batch number: 05209020001A pH				100		99-101		
Batch number: 05209022101A Ammonia Nitrogen	N.D.	0.11	mg/l	98		91-100		
Batch number: 05209WAC625 bis(2-Ethylhexyl)phthalate	N.D.	1.	ug/l	93		68-111		
Batch number: 05210109101B Total Phosphorus as P (water)	N.D.	0.080	mg/l	97		89-110		
Batch number: 05210401301C Sulfate	N.D.	0.30	mg/l	96		90-110		
Batch number: 05210A36A Total Xylenes	N.D.	0.6	ug/l	111	110	82-120	1	30
Benzene	N.D.	0.2	ug/l	107	106	86-119	1	30
Toluene	N.D.	0.2	ug/l	112	111	82-119	1	30
Ethylbenzene	N.D.	0.2	ug/l	110	109	81-119	1	30
Batch number: 05213020601A Total Suspended Solids	N.D.	3.0	mg/l	99		56-128		
Batch number: 05213021201A Total Dissolved Solids	N.D.	9.7	mg/l	99		80-120		
Batch number: 05215106101B Nitrate Nitrogen	N.D.	0.040	mg/l	98		89-110		
Batch number: 052160033A Methane	N.D.	2.0	ug/l	97		80-120		
Ethane	N.D.	1.0	ug/l	100		80-120		
Ethene	N.D.	1.0	ug/l	100		80-120		
Propane	N.D.	1.0	ug/l	94		80-120		

Sample Matrix Quality Control

MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
----	-----	--------	-----	-----	-----	-----	---------

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952954

Reported: 08/09/05 at 03:08 PM

Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Batch number: 05208105104A Nitrite Nitrogen	Sample number(s): 4571545-4571546,4571548 103		90-110			N.D.	N.D.	75* (1)	20
Batch number: 05209020001A pH	Sample number(s): 4571545					7.2	7.2	0	1
Batch number: 05209022101A Ammonia Nitrogen	Sample number(s): 4571545-4571548 96	95	64-128	1	8	N.D.	N.D.	0 (1)	2
Batch number: 05209WAC625 bis(2-Ethylhexyl)phthalate	Sample number(s): 4571544-4571547 94	92	69-111	2	30				
Batch number: 05210109101B Total Phosphorus as P (water)	Sample number(s): 4571545 105		90-110			N.D.	N.D.	0 (1)	3
Batch number: 05210401301C Sulfate	Sample number(s): 4571545 95		90-110			39.0	37.8	3	3
Batch number: 05210A36A Total Xylenes	Sample number(s): 4571544-4571547,4571549 114	112	78-130	2	30				
Benzene	112	111	78-131	2	30				
Toluene	116	113	78-129	2	30				
Ethylbenzene	114	113	75-133	2	30				
Batch number: 05213020601A Total Suspended Solids	Sample number(s): 4571545					2,080.	2,040.	2 (1)	20
Batch number: 05213021201A Total Dissolved Solids	Sample number(s): 4571545 100	101	60-140	0	5	1,140.	1,120.	2	5
Batch number: 05215106101B Nitrate Nitrogen	Sample number(s): 4571545-4571546,4571548 107		90-110			4.1	4.7	14*	2
Batch number: 052160033A Methane	Sample number(s): 4571545-4571547 98	97	63-120	2	20				
Ethane	103	102	69-118	2	20				
Ethene	102	102	67-125	0	20				
Propane	95	135*	54-127	34*	20				

Surrogate Quality Control

Analysis Name: Base Neutrals

Batch number: 05209WAC625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4571544	86	83	80
4571545	85	82	82
4571546	94	87	89
4571547	95	86	91
Blank	88	85	81
LCS	96	91	92
MS	94	87	89
MSD	95	86	91

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control SummaryClient Name: RMT, Inc.
Reported: 08/09/05 at 03:08 PM

Group Number: 952954

Surrogate Quality Control

Limits: 48-117

62-111

45-132

Analysis Name: BTEX (EPA 602)
Batch number: 05210A36A
Trifluorotoluene-P

4571544	101
4571545	99
4571546	99
4571547	100
4571549	100
Blank	100
LCS	99
LCSD	99
MS	99
MSD	100

Limits: 69-137

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 052160033A
Propene

4571545	101
4571546	99
4571547	99
Blank	99
LCS	98
MS	99
MSD	99

Limits: 64-126

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request, Environmental Services Chain of Custody



For Lancaster Laboratories use only
 Acct. # 9322 Group # 952954 Sample # 4571544-49

COC # 0096859

Please print. Instructions on reverse side correspond with circled numbers.

Cooler Temp 1.2-3.5°C

1 Client: RMT, Inc. Acct. #: _____
 Project Name#: LE Carpenter/6527.10 PWSID #: _____
 Project Manager: Nick Cleveett P.O. #: _____
 Sampler: J. Overvoorde Quote #: _____
 Name of state where samples were collected: NJ

4

5

For Lab Use Only
 FSC: _____
 SCR #: _____

6

2

3

BTEX
 EPA 625 (DEHP)
 NH₃ / TP
 SO₄ / TS's / TDS
 SAC
 NO₃
 NO₂
 BD15B
 PH

Remarks

MW-19-9D	7/27/05	847	X		X	5	X	X								X	
MW-19-1	7/27/05	920	X		X	14	X	X	X	X	X	X	X	X	X	X	
MW-19-1 MS/MSD	7/27/05	920	X		X	10	X	X	X		X	X					NH ₃ only

7 Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
 Date results are needed: _____
 Rush results requested by (please circle): Phone Fax E-mail
 Phone #: _____ Fax #: _____
 E-mail address: _____

Relinquished by: <u>Overvoorde</u>	Date: <u>7/27/05</u>	Time: <u>1030</u>	Received by: <u>Jay Chalk</u>	Date: <u>7/27/05</u>	Time: <u>1030</u>
Relinquished by: <u>Jay Chalk</u>	Date: <u>7/27/05</u>	Time: <u>1540</u>	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: <u>7/27/05</u>	Time: <u>1540</u>

8 Data Package Options (please circle if required)
 QC Summary Type VI (Raw Data) SDG Complete? Yes No
 Type I (Tier I) GLP Site-specific QC required? Yes No
 Type II (Tier II) Other (If yes, indicate QC sample and submit triplicate volume.)
 Type III (NJ Red. Del.) Internal Chain of Custody required? Yes No
 Type IV (CLP)

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952821. Samples arrived at the laboratory on Wednesday, July 27, 2005. The PO# for this group is 6527.10.

Client Description

MW-19-11 Grab Water Sample
MW-19-10 Grab Water Sample
MW-19-6 Grab Water Sample
ATM-01 Grab Water Sample
DUP-01 Grab Water Sample
MW-19-2 Grab Water Sample
MW-19-5 Grab Water Sample
Trip Blank Water Sample

Lancaster Labs Number

4571022
4571023
4571024
4571025
4571026
4571027
4571028
4571029

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Nicholas J. Clevett



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Earl R Custer

Earl R. Custer
Group Leader



Analysis Report

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Page 1 of 2

Lancaster Laboratories Sample No. WW 4571022

MW-19-11 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 10:06 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W1911 SDG#: LEC48-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	63.	1.	cfu/ml	n.a.

This count is an estimate due to the presence of spreader-type colony growth.

The sample was plated by Earl Custer on 7-27-05 by 1025.
Sample was greater than 24 hours old when analyzed.

00200	pH	n.a.	6.9	0.010	Std. Units	1
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The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.

00206	Total Suspended Solids	n.a.	106.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	555.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	0.11	0.080	mg/l	1
00228	Sulfate	14808-79-8	21.5	1.5	mg/l	5

07105 Volatile Headspace Hydrocarbon

07106	Methane	74-82-8	26.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1

08238 BTEX (EPA 602)

05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

00553 Base Neutrals

00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1
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State of New Jersey Lab Certification No. PA011



Analysis Report

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Lancaster Laboratories Sample No. WW 4571022

MW-19-11 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 10:06

by JO

Account Number: 09322

Submitted: 07/27/2005 09:05

Reported: 08/09/2005 at 10:58

Discard: 09/09/2005

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

W1911 SDG#: LEC48-10

Laboratory Chronicle

CAT	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
No.						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 19:56	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:45	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:43	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	07/29/2005 10:35	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 21:58	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 18:13	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/30/2005 15:08	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571023

MW-19-10 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 12:28 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W1910 SDG#: LEC48-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.	n.a.	26.	1.	cfu/ml	n.a.
00200	pH The sample was plated by Earl Custer on 7-27-05 by 1025.	n.a.	6.9	0.010	Std. Units	1
00206	Total Suspended Solids	n.a.	10.4 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	560.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	16.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



Analysis Report

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Lancaster Laboratories Sample No. WW 4571023

MW-19-10 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 12:28

by JO

Account Number: 09322

Submitted: 07/27/2005 09:05

Reported: 08/09/2005 at 10:58

Discard: 09/09/2005

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

W1910 SDG#: LEC48-11

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 19:57	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:46	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:44	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 13:28	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 22:15	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 18:49	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/30/2005 15:58	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571024

MW-19-6 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 15:02 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W19-6 SDG#: LEC48-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	90.	1.	cfu/ml	n.a.
The sample was plated by Earl Custer on 7-27-05 by 1025.						
00200	pH	n.a.	6.8	0.010	Std. Units	1
The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.						
00206	Total Suspended Solids	n.a.	40.8	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	1,520.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.1	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	35.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	38.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	14.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	27.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	3.6	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	2. J	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
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Analysis Report

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Lancaster Laboratories Sample No. WW 4571024

MW-19-6 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 15:02 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W19-6	SDG#: LEC48-12						
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.	
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1	
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1	
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1	
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 19:58	Venia B McFadden	1	
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:50	Nicole M Kepley	1	
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1	
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:45	Nicole M Kepley	1	
00228	Sulfate	EPA 300.0	1	08/01/2005 13:41	Shannon L Phillips	5	
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 22:32	Robert I Pusch	1	
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 19:24	K. Robert Caulfeild-James	1	
00553	Base Neutrals	EPA 625	1	07/30/2005 16:49	Brian K Graham	1	
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1	
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1	



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Lancaster Laboratories Sample No. WW 4571025

ATM-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 15:15 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

ATM01 SDG#: LEC48-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution.	n.a.	4.	1.	cfu/ml	n.a.
The sample was plated by Earl Custer on 7-27-05 by 1040.						
00200	pH The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.	n.a.	5.8	0.010	Std. Units	1
00206	Total Suspended Solids	n.a.	N.D.	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	N.D.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	N.D.	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



Analysis Report

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Lancaster Laboratories Sample No. WW 4571025

ATM-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 15:15 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:58
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

ATM01 SDG#: LEC48-13

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30		Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35		Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54		Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19		Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 19:59		Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:51		Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00		Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:46		Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 13:55		Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 22:49		Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 20:00		K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/30/2005 17:39		Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50		Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25		Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571026

DUP-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:59
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

DUP01 SDG#: LEC48-14FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution. The sample was plated by Earl Custer on 7-27-05 by 1040.	n.a.	12.	1.	cfu/ml	n.a.
00200	pH The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.	n.a.	6.9	0.010	Std. Units	1
00206	Total Suspended Solids	n.a.	8.0 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	617.	19.4	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	16.0	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	N.D.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011



Analysis Report

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Lancaster Laboratories Sample No. WW 4571026

DUP-01 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:59
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

DUP01 SDG#: LEC48-14FD

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:01	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:53	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:47	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 14:09	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 23:05	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 20:35	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/30/2005 18:30	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1

Lancaster Laboratories Sample No. WW 4571027

MW-19-2 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 16:20 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:59
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W19-2 SDG#: LEC48-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count This result is an estimated count. At least one plate used to calculate the result is outside the established counting range of 30 to 300 colony forming units (cfu) per dilution. The sample was plated by Earl Custer on 7-27-05 by 1040.	n.a.	8.	1.	cfu/ml	n.a.
00200	pH The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.	n.a.	7.2	0.010	Std. Units	1
00206	Total Suspended Solids	n.a.	3.2 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	976.	38.8	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	1.0	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	0.12 J	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	27.2	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	120.	2.0	ug/l	1
07107	Ethane	74-84-0	N.D.	1.0	ug/l	1
07108	Ethene	74-85-1	N.D.	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	20.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	40.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	6.2	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571027

MW-19-2 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 16:20

by JO

Account Number: 09322

Submitted: 07/27/2005 09:05

Reported: 08/09/2005 at 10:59

Discard: 09/09/2005

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

W19-2 SDG#: LEC48-15

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:02	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:54	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:49	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 14:22	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 23:22	Robert I Pusch	1
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 21:11	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/30/2005 19:20	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571028

MW-19-5 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 18:25 by JO

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:59
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W19-5 SDG#: LEC48-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00307	Heterotrophic Plate Count	n.a.	69.	1.	cfu/ml	n.a.
The sample was plated by Earl Custer on 7-27-05 by 1050.						
00200	pH	n.a.	6.6	0.010	Std. Units	1
The 40 CFR Part 136 requires that this analysis be performed immediately (within 15 minutes) upon sample collection. Because this was not possible, the result may not be used for reporting purposes.						
00206	Total Suspended Solids	n.a.	6.8 J	3.0	mg/l	1
00212	Total Dissolved Solids	n.a.	463.	9.7	mg/l	1
00219	Nitrite Nitrogen	14797-65-0	N.D.	0.015	mg/l	1
00220	Nitrate Nitrogen	14797-55-8	N.D.	0.040	mg/l	1
00221	Ammonia Nitrogen	7664-41-7	N.D.	0.11	mg/l	1
00227	Total Phosphorus as P (water)	7723-14-0	N.D.	0.080	mg/l	1
00228	Sulfate	14808-79-8	7.7	1.5	mg/l	5
07105	Volatile Headspace Hydrocarbon					
07106	Methane	74-82-8	1,700.	50.	ug/l	25
07107	Ethane	74-84-0	4.3 J	1.0	ug/l	1
07108	Ethene	74-85-1	1.1 J	1.0	ug/l	1
07109	Propane	74-98-6	N.D.	1.0	ug/l	1
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	13,000.	300.	ug/l	500
07029	Benzene	71-43-2	N.D.	100.	ug/l	500
07030	Toluene	108-88-3	100,000.	100.	ug/l	500
07031	Ethylbenzene	100-41-4	2,600.	100.	ug/l	500
Due to dilution of the sample made necessary by the high level of toluene, normal reporting limits were not attained.						
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011



Analysis Report

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Lancaster Laboratories Sample No. WW 4571028

MW-19-5 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 18:25

by JO

Account Number: 09322

Submitted: 07/27/2005 09:05

Reported: 08/09/2005 at 10:59

Discard: 09/09/2005

RMT, Inc.

PO Box 8923

Madison WI 53708-8923

W19-5 SDG#: LEC48-16

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00307	Heterotrophic Plate Count	Std Meth 9215B 19th ed 1995	1	07/29/2005 10:30	Earl R Custer	n.a.
00200	pH	EPA 150.1	1	07/27/2005 18:35	Luz M Groff	1
00206	Total Suspended Solids	EPA 160.2	1	07/29/2005 07:54	Susan E Hibner	1
00212	Total Dissolved Solids	EPA 160.1	1	07/29/2005 08:19	Anne L Kuenzli	1
00219	Nitrite Nitrogen	EPA 353.2	1	07/27/2005 20:03	Venia B McFadden	1
00220	Nitrate Nitrogen	EPA 353.2	1	08/03/2005 08:55	Nicole M Kepley	1
00221	Ammonia Nitrogen	EPA 350.2	1	07/28/2005 17:00	Luz M Groff	1
00227	Total Phosphorus as P (water)	EPA 365.1	1	08/02/2005 10:50	Nicole M Kepley	1
00228	Sulfate	EPA 300.0	1	08/01/2005 14:36	Shannon L Phillips	5
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/04/2005 23:39	Robert I Pusch	1
07105	Volatile Headspace Hydrocarbon	SW-846 8015B, modified	1	08/05/2005 18:10	Robert I Pusch	25
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 22:21	K. Robert Caulfeild-James	500
00553	Base Neutrals	EPA 625	1	07/30/2005 20:11	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/28/2005 16:50	Olivia I Santiago	1
08263	Total Phos as P Prep (water)	EPA 365.1	1	07/29/2005 14:25	Nancy J Shoop	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4571029

Trip Blank Water Sample
L.E. Carpenter, NJ

Collected: n.a.

Account Number: 09322

Submitted: 07/27/2005 09:05
Reported: 08/09/2005 at 10:59
Discard: 09/09/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

W19TB SDG#: LEC48-17TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 17:38	K. Robert Caulfeild-James	1

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952821

Reported: 08/09/05 at 10:59 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 05208020001A pH	Sample number(s): 4571022-4571028			100		99-101		
Batch number: 05208105104A Nitrite Nitrogen	Sample number(s): 4571022-4571028			N.D. 0.015 mg/l	100	90-110		
Batch number: 05209022101A Ammonia Nitrogen	Sample number(s): 4571022-4571028			N.D. 0.11 mg/l	98	91-100		
Batch number: 05209A36A Total Xylenes	Sample number(s): 4571022-4571029			N.D. 0.6 ug/l	109	82-120	1	30
Benzene	N.D. 0.2 ug/l			107	110	86-119	1	30
Toluene	N.D. 0.2 ug/l			114	108	82-119	0	30
Ethylbenzene	N.D. 0.2 ug/l			108	114	81-119	1	30
Batch number: 05209WAC625 bis(2-Ethylhexyl)phthalate	Sample number(s): 4571022-4571028			N.D. 1. ug/l	93	68-111		
Batch number: 05210020601B Total Suspended Solids	Sample number(s): 4571022-4571028			N.D. 3.0 mg/l	89	56-128		
Batch number: 05210021201A Total Dissolved Solids	Sample number(s): 4571022-4571028			N.D. 9.7 mg/l	105	80-120		
Batch number: 05210109101A Total Phosphorus as P (water)	Sample number(s): 4571022-4571028			N.D. 0.080 mg/l	97	89-110		
Batch number: 05210401301A Sulfate	Sample number(s): 4571022-4571023			N.D. 0.30 mg/l	96	90-110		
Batch number: 05210401301B Sulfate	Sample number(s): 4571024-4571028			N.D. 0.30 mg/l	96	90-110		
Batch number: 05215106101A Nitrate Nitrogen	Sample number(s): 4571022-4571023			N.D. 0.040 mg/l	98	89-110		
Batch number: 05215106101B Nitrate Nitrogen	Sample number(s): 4571024-4571028			N.D. 0.040 mg/l	98	89-110		
Batch number: 052160032A Methane	Sample number(s): 4571022-4571028			N.D. 2.0 ug/l	97	80-120		
Ethane	N.D. 1.0 ug/l			102		80-120		
Ethene	N.D. 1.0 ug/l			100		80-120		
Propane	N.D. 1.0 ug/l			94		80-120		

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952821

Reported: 08/09/05 at 10:59 AM

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
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Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05208020001A pH	Sample number(s): 4571022-4571028					8.1	8.1	0	1
Batch number: 05208105104A Nitrite Nitrogen	Sample number(s): 4571022-4571028 103 90-110					N.D.	N.D.	75* (1)	20
Batch number: 05209022101A Ammonia Nitrogen	Sample number(s): 4571022-4571028 96 95 64-128 1 8					N.D.	N.D.	0 (1)	2
Batch number: 05209A36A Total Xylenes	Sample number(s): 4571022-4571029 110 78-130								
Benzene	108 78-131								
Toluene	111 78-129								
Ethylbenzene	111 75-133								
Batch number: 05209WAC625 bis(2-Ethylhexyl)phthalate	Sample number(s): 4571022-4571028 94 92 69-111 2 30								
Batch number: 05210020601B Total Suspended Solids	Sample number(s): 4571022-4571028					5,980.	5,920.	1	20
Batch number: 05210021201A Total Dissolved Solids	Sample number(s): 4571022-4571028 105 103 60-140 1 5					45,300.	46,400.	2	5
Batch number: 05210109101A Total Phosphorus as P (water)	Sample number(s): 4571022-4571028 105 90-110					0.52	0.53	0	3
Batch number: 05210401301A Sulfate	Sample number(s): 4571022-4571023 101 90-110					N.D.	N.D.	5* (1)	3
Batch number: 05210401301B Sulfate	Sample number(s): 4571024-4571028 96 90-110					1,190.	1,180.	1 (1)	3
Batch number: 05215106101A Nitrate Nitrogen	Sample number(s): 4571022-4571023 103 90-110					N.D.	N.D.	0 (1)	2
Batch number: 05215106101B Nitrate Nitrogen	Sample number(s): 4571024-4571028 107 90-110					4.1	4.7	14*	2
Batch number: 052160032A Methane	Sample number(s): 4571022-4571028 87 83 63-120 3 20								
Ethane	96 100 69-118 3 20								
Ethene	100 102 67-125 2 20								
Propane	90 92 54-127 2 20								

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.
Reported: 08/09/05 at 10:59 AM

Group Number: 952821

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 05209A36A
Trifluorotoluene-P

4571022	100
4571023	100
4571024	100
4571025	101
4571026	100
4571027	99
4571028	100
4571029	100
Blank	100
LCS	101
LCSD	100
MS	101

Limits: 69-137

Analysis Name: Base Neutrals
Batch number: 05209WAC625
Nitrobenzene-d5

4571022	82
4571023	82
4571024	85
4571025	87
4571026	87
4571027	86
4571028	83
Blank	88
LCS	96
MS	94
MSD	95

2-Fluorobiphenyl

84
85
83
89
86
84
89
85
81
92
87
86

Terphenyl-d14

77
82
81
84
85
84
85
81
92
89
91

Limits: 48-117

62-111

45-132

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 052160032A
Propene

4571022	81
4571023	104
4571024	100
4571025	102
4571026	105
4571027	103
4571028	101
Blank	113
LCS	109
MS	93
MSD	101

Limits: 64-126

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952821

Reported: 08/09/05 at 10:59 AM

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Analysis Request, Environmental Services Chain of Custody



For Lancaster Laboratories use only

Acct. # 9322 Group# 952821 Sample # 4571022-29

COC # 0096860

Please print. Instructions on reverse side correspond with circled numbers.

1 Client: RMT, Inc. Acct. #: _____
 Project Name/#: LE Carpenter / 6527.10 PWSID #: _____
 Project Manager: Nick Cleve P.O.#: _____
 Sampler: J. Overvoorde Quote #: _____
 Name of state where samples were collected: NY

4

5

For Lab Use Only
 FSC: _____
 SCR #: _____

6

2

3

	BTEX	EPA 625 (DEHP)	NH ₃ , TP	SO ₄ , TSS, TDS	SAC	NO ₃	NO ₂	SD/5B	Remarks
MW-19-11	X					X			
MW-19-10	X					X			
MW-19-6	X					X			
Atm-01	X					X			
Dup-01	X					X			
MW-19-2	X					X			
MW-19-5	X					X			
trip blank	X					X			

7

Turnaround Time Requested (TAT) (please circle): Normal Rush
 (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)

Date results are needed: _____

Rush results requested by (please circle): Phone Fax E-mail

Phone #: _____ Fax #: _____

E-mail address: _____

8

Data Package Options (please circle if required)

QC Summary

Type VI (Raw Data)

SDG Complete?

Yes No

Type I (Tier I)

GLP

Site-specific QC required? Yes No

Type II (Tier II)

Other

(If yes, indicate QC sample and submit triplicate volume.)

Type III (NJ Red. Del.)

Internal Chain of Custody required? Yes No

Type IV (CLP)

Relinquished by:

J. Overvoorde

Date Time

7/24/05 0600

Received by:

Date Time

9

Relinquished by:

Date Time

Received by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

Relinquished by:

Date Time

Received by:

Date Time

7/27/05 0905

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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Analysis Report

ANALYTICAL RESULTS

Prepared for:

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

608-831-4444

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 952729. Samples arrived at the laboratory on Tuesday, July 26, 2005.

Client Description

SW-R-1 Grab Water Sample
SW-R-2 Grab Water Sample
SW-R-5 Grab Water Sample
SW-R-3 Grab Water Sample
SW-R-4 Grab Water Sample
SW-D-2 Grab Water Sample
SW-D-3 Grab Water Sample
SW-D-1 Grab Water Sample

Lancaster Labs Number

4570627
4570628
4570629
4570630
4570631
4570632
4570633
4570634

METHODOLOGY

The specific methodologies used in obtaining the enclosed analytical results are indicated on the laboratory chronicles.

1 COPY TO
1 COPY TO

RMT, Inc.
Data Package Group

Attn: Nicholas J. Clevett



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

A handwritten signature in cursive script that reads "Dana M. Kauffman".

Dana M. Kauffman
Manager



Analysis Report

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Lancaster Laboratories Sample No. WW 4570627

SW-R-1 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/25/2005 17:23 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWR-1 SDG#: LEC48-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	N.D.		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	1. J		0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 09:33	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 08:16	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570628

SW-R-2 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/25/2005 17:30 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWR-2 SDG#: LEC48-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 10:09	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 09:10	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570629

SW-R-5 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/25/2005 15:10 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWR-5 SDG#: LEC48-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 10:44	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 10:05	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570630

SW-R-3 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/25/2005 17:40 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWR-3 SDG#: LEC48-04

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution
			Result	Method Detection Limit		
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 11:19	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 10:59	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570631

SW-R-4 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/25/2005 17:55 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWR-4 SDG#: LEC48-05

CAT No.	Analysis Name	CAS Number	As Received	As Received	Units	Dilution
			Result	Method Detection Limit		
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	N.D.	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 11:55	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 11:53	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570632

SW-D-2 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 07:20 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWD-2 SDG#: LEC48-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received		Units	Dilution Factor
				Method	Detection Limit		
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	6.1		0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	0.5 J		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	38.		0.9	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 12:30	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 12:47	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

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Lancaster Laboratories Sample No. WW 4570633

SW-D-3 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 07:30 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWD-3 SDG#: LEC48-07

CAT No.	Analysis Name	CAS Number	As Received		As Received Method	Units	Dilution Factor
			Result		Detection Limit		
08238	BTEX (EPA 602)						
05538	Total Xylenes	1330-20-7	1.1	J	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.		0.2	ug/l	1
07030	Toluene	108-88-3	N.D.		0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.		0.2	ug/l	1
00553	Base Neutrals						
00669	bis(2-Ethylhexyl)phthalate	117-81-7	7.	J	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 13:06	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 13:42	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Page 1 of 1

Lancaster Laboratories Sample No. WW 4570634

SW-D-1 Grab Water Sample
L.E. Carpenter, NJ

Collected: 07/26/2005 07:15 by JO

Account Number: 09322

Submitted: 07/26/2005 13:40
Reported: 07/29/2005 at 20:36
Discard: 08/29/2005

RMT, Inc.
PO Box 8923
Madison WI 53708-8923

SWD-1 SDG#: LEC48-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
08238	BTEX (EPA 602)					
05538	Total Xylenes	1330-20-7	N.D.	0.6	ug/l	1
07029	Benzene	71-43-2	N.D.	0.2	ug/l	1
07030	Toluene	108-88-3	0.5 J	0.2	ug/l	1
07031	Ethylbenzene	100-41-4	N.D.	0.2	ug/l	1
00553	Base Neutrals					
00669	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	1.	ug/l	1

State of New Jersey Lab Certification No. PA011

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
08238	BTEX (EPA 602)	EPA 602	1	07/28/2005 13:41	K. Robert Caulfeild-James	1
00553	Base Neutrals	EPA 625	1	07/28/2005 14:36	Brian K Graham	1
08108	625 Water Extraction	EPA 625	1	07/27/2005 16:45	Olivia I Santiago	1

Quality Control Summary

Client Name: RMT, Inc.

Group Number: 952729

Reported: 07/29/05 at 08:36 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 05208WAB625 bis(2-Ethylhexyl)phthalate	Sample number(s): 4570627-4570634 N.D.	1.	ug/l	93	94	68-111	1	30
Batch number: 05209A36A Total Xylenes	Sample number(s): 4570627-4570634 N.D.	0.6	ug/l	109	110	82-120	1	30
Benzene	N.D.	0.2	ug/l	107	108	86-119	1	30
Toluene	N.D.	0.2	ug/l	114	114	82-119	0	30
Ethylbenzene	N.D.	0.2	ug/l	108	109	81-119	1	30

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 05209A36A Total Xylenes	Sample number(s): 4570627-4570634 110		78-130						
Benzene	108		78-131						
Toluene	111		78-129						
Ethylbenzene	111		75-133						

Surrogate Quality Control

Analysis Name: Base Neutrals

Batch number: 05208WAB625

	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14
4570627	86	90	77
4570628	86	89	72
4570629	87	88	74
4570630	85	89	77
4570631	82	83	77
4570632	91	90	76
4570633	85	88	73
4570634	83	88	75
Blank	89	86	86
LCS	98	88	94
LCSD	96	95	98
Limits:	48-117	62-111	45-132

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: RMT, Inc.
Reported: 07/29/05 at 08:36 PM

Group Number: 952729

Surrogate Quality Control

Analysis Name: BTEX (EPA 602)
Batch number: 05209A36A
Trifluorotoluene-P

4570627	100
4570628	100
4570629	101
4570630	99
4570631	100
4570632	97
4570633	100
4570634	101
Blank	100
LCS	101
LCSD	100
MS	101

Limits: 69-137

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Lancaster Laboratories
Where quality is a science.

Acct. # 9322

Group# 952729

Sample # 45702027-34

COC # 0096862

Please print. Instructions on reverse side correspond with circled numbers

Cooler Temp $3.0-4.2^{\circ}\text{C}$

[illegible]

<p>7 Turnaround Time Requested (TAT) (please circle): Normal <input type="radio"/> Rush <input type="radio"/> (Rush TAT is subject to Lancaster Laboratories approval and surcharge.)</p> <p>Date results are needed: _____</p> <p>Rush results requested by (please circle): Phone <input type="radio"/> Fax <input type="radio"/> E-mail <input type="radio"/></p> <p>Phone #: _____ Fax #: _____</p> <p>E-mail address: _____</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Relinquished by: <i>[Signature]</i></td> <td style="width: 11%;">Date: 7/24/05</td> <td style="width: 11%;">Time: 12:35</td> <td style="width: 33%;">Received by: <i>[Signature]</i></td> <td style="width: 11%;">Date: 7/25/05</td> <td style="width: 11%;">Time: 12:30</td> </tr> <tr> <td>Relinquished by: <i>[Signature]</i></td> <td>Date: 7/24/05</td> <td>Time: 10:57</td> <td>Received by: <i>[Signature]</i></td> <td>Date: 7/24/05</td> <td>Time: 10:57</td> </tr> <tr> <td>Relinquished by: <i>[Signature]</i></td> <td>Date: 7/24/05</td> <td>Time: 13:40</td> <td>Received by: <i>[Signature]</i></td> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Relinquished by: <i>[Signature]</i></td> <td>Date: _____</td> <td>Time: _____</td> <td>Received by: <i>[Signature]</i></td> <td>Date: _____</td> <td>Time: _____</td> </tr> <tr> <td>Relinquished by: <i>[Signature]</i></td> <td>Date: _____</td> <td>Time: _____</td> <td>Received by: <i>[Signature]</i></td> <td>Date: 7/26/05</td> <td>Time: 09:00</td> </tr> </table>	Relinquished by: <i>[Signature]</i>	Date: 7/24/05	Time: 12:35	Received by: <i>[Signature]</i>	Date: 7/25/05	Time: 12:30	Relinquished by: <i>[Signature]</i>	Date: 7/24/05	Time: 10:57	Received by: <i>[Signature]</i>	Date: 7/24/05	Time: 10:57	Relinquished by: <i>[Signature]</i>	Date: 7/24/05	Time: 13:40	Received by: <i>[Signature]</i>	Date: _____	Time: _____	Relinquished by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: _____	Time: _____	Relinquished by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: 7/26/05	Time: 09:00
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Relinquished by: <i>[Signature]</i>	Date: _____	Time: _____	Received by: <i>[Signature]</i>	Date: 7/26/05	Time: 09:00																										

<p>8 Data Package Options (please circle if required)</p> <p>QC Summary <input type="radio"/> Type VI (Raw Data) <input type="radio"/></p> <p>Type I (Tier I) <input type="radio"/> GLP <input type="radio"/></p> <p>Type II (Tier II) <input type="radio"/> Other <input type="radio"/></p> <p>Type III (NJ Red. Del.) <input type="radio"/></p> <p>Type IV (CLP) <input type="radio"/></p>	<p>SDG Complete? Yes <input type="radio"/> No <input type="radio"/></p> <p>Site-specific QC required? Yes <input type="radio"/> No <input type="radio"/></p> <p>(If yes, indicate QC sample and submit triplicate volume.)</p> <p>Internal Chain of Custody required? Yes <input type="radio"/> No <input type="radio"/></p>
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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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